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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

James H. Watt

RPI-123US

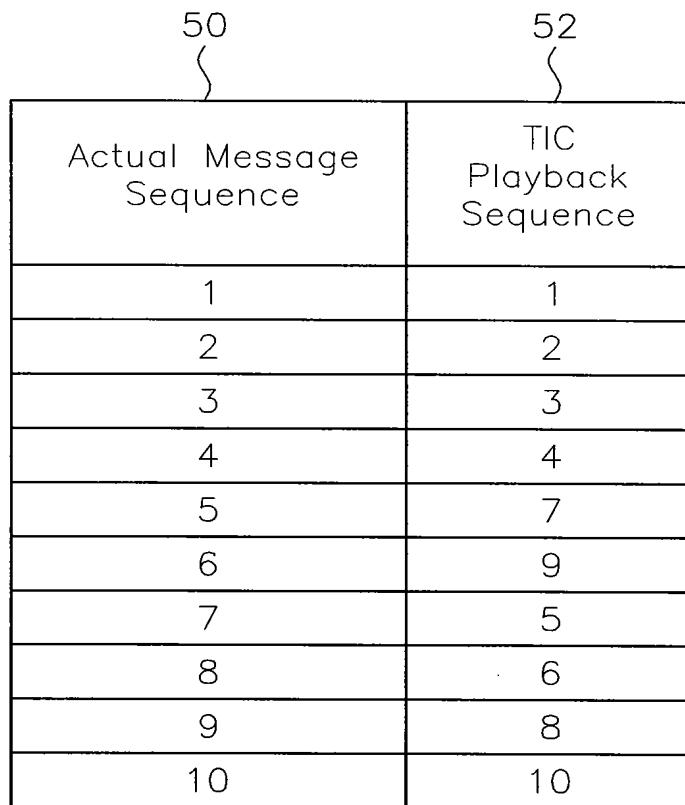
Day	Local Time			Person Posting Message	Message Number	Message Content
	Person A-NY	Person B-LA	Person C-London	Person D-Tokyo		
10~	9:00:00	6:00:00	2:00:00	11:00:00 PM	A	Suggestion for color
12~	1 AM	6:10:00 AM	2:10:00 PM	11:10:00 AM	D	Responds with alternative suggestion
14~	1 AM	10:00:00 AM	6:00:00 PM	3:00:00 PM	B	Replies to both Message 1 and 2 and asks Person C's opinion
16~	1 PM	10:00:00 AM	6:00:00 PM	8:00:00 AM	C	Replies to Message 3 with opinion
18~	2 AM	3:00:00 AM	11:00:00 AM	8:30:00 AM	D	Raises new problem with dimensions
20~	2 AM	3:30:00 AM	11:30:00 AM	9:15:00 AM	C	Suggests two possible solutions to Message 5 problem
22~	2 AM	4:15:00 AM	12:15:00 PM	11:20:00 AM	A	Replies to Message 4 with another color option
24~	2 AM	6:20:00 AM	2:20:00 PM	11:25:00 AM	B	Replies to Message 6 with cost of dimensional change
26~	2 AM	6:25:00 AM	2:25:00 PM	11:30:00 AM	C	Has been traveling and prepared response to Message 7 on plane. Logs on now and posts it.
28~	3 PM	11:00:00 AM	7:00:00 PM	4:00:00 PM	D	Responds to Message 8
30~	3 PM	12:00:00 PM	8:00:00 PM	5:00:00 PM	A	40
32~	34	36	38	40	42	44
						46

FIG. 1

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The diagram illustrates two groups of 10 items, labeled 50 and 52, positioned above a table. The table compares the 'Actual Message Sequence' and the 'TIC Playback Sequence' for these items. The 'Actual Message Sequence' is a linear list of numbers 1 through 10. The 'TIC Playback Sequence' shows a different order: 1, 2, 3, 4, 5, 7, 9, 5, 6, 8. Braces above the table group the first 5 items (1-5) and the last 5 items (6-10) under the labels 50 and 52 respectively.

Actual Message Sequence	TIC Playback Sequence
1	1
2	2
3	3
4	4
5	7
6	9
7	5
8	6
9	8
10	10

FIG. 2

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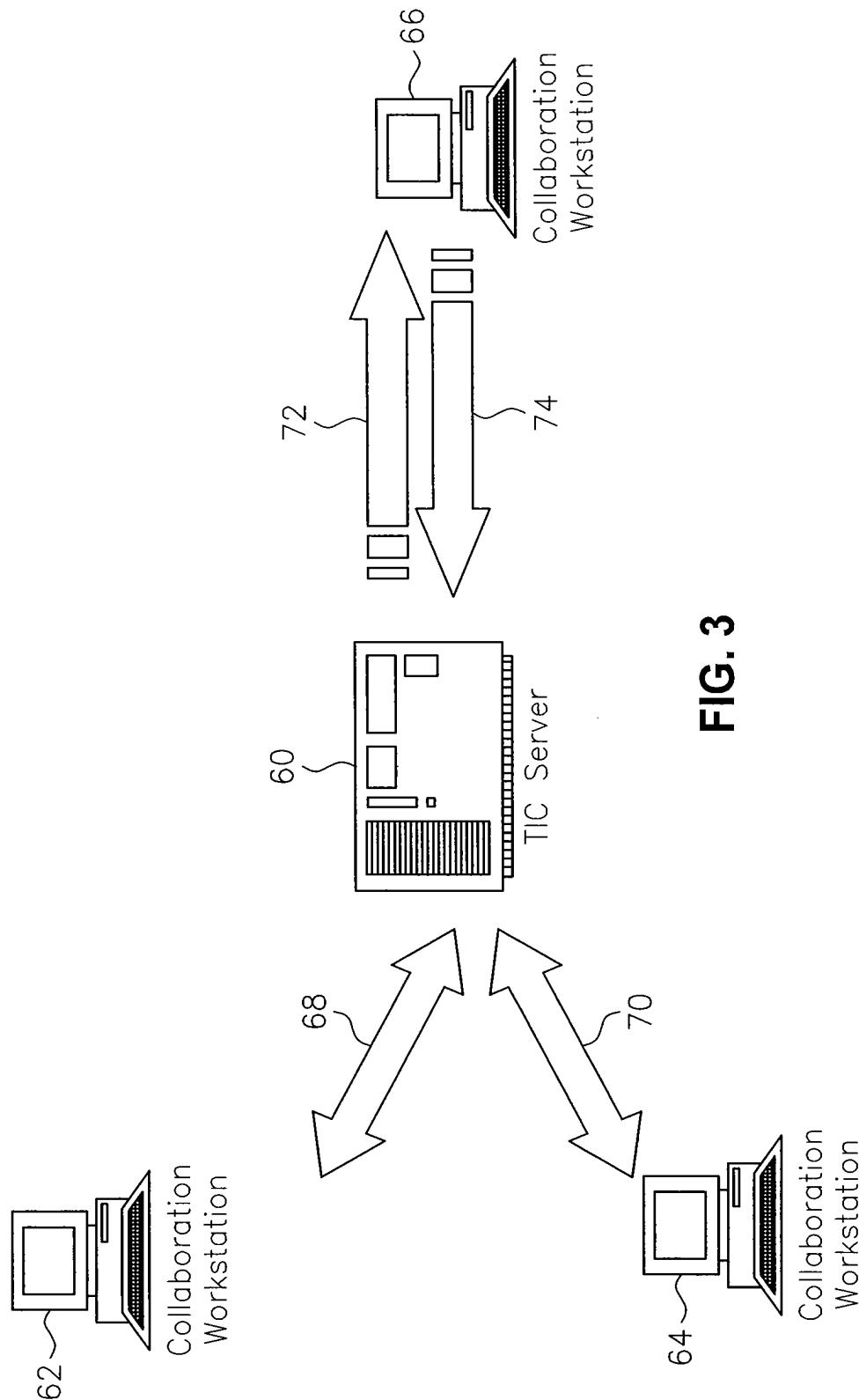
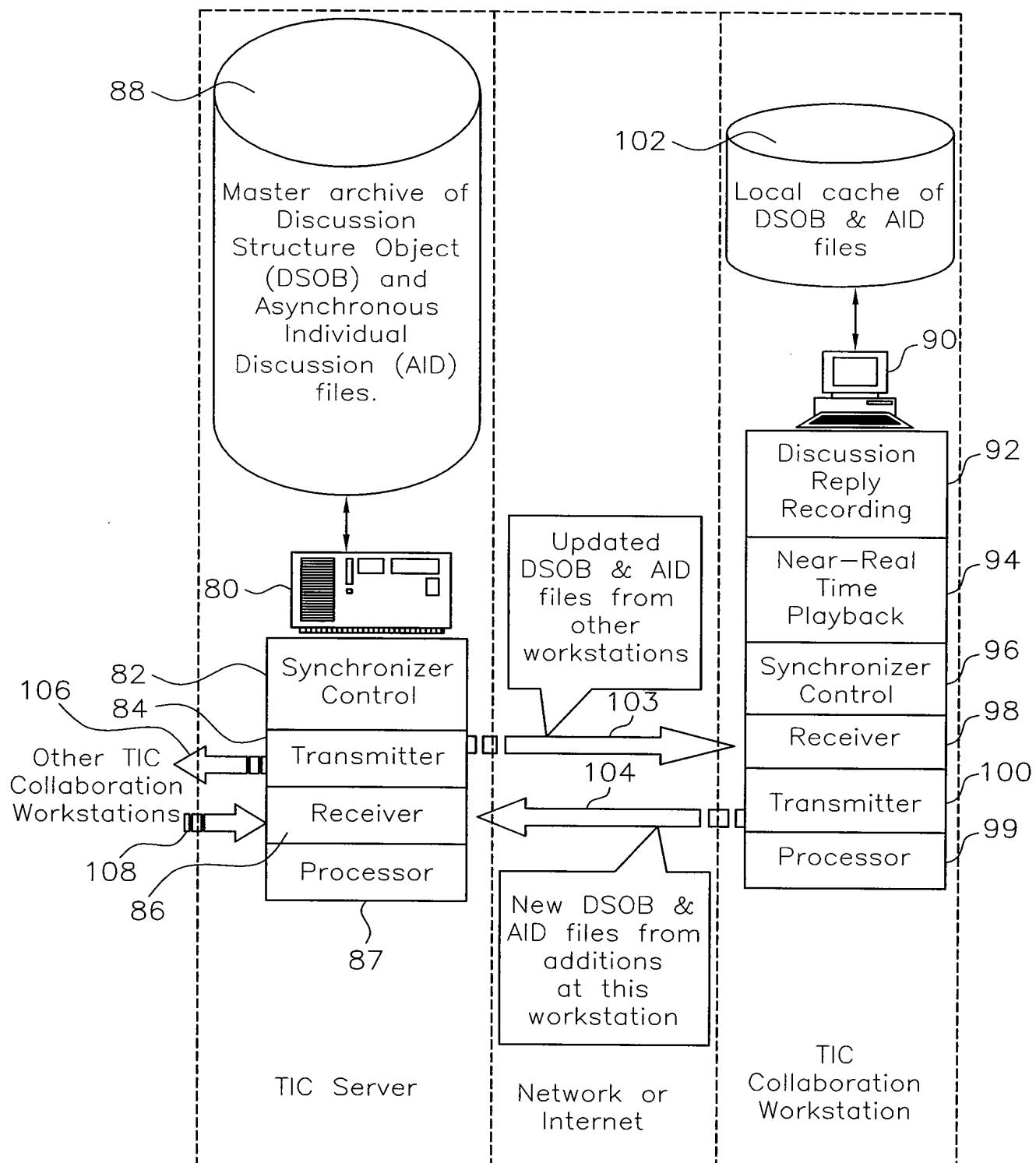


FIG. 3

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**FIG. 4**

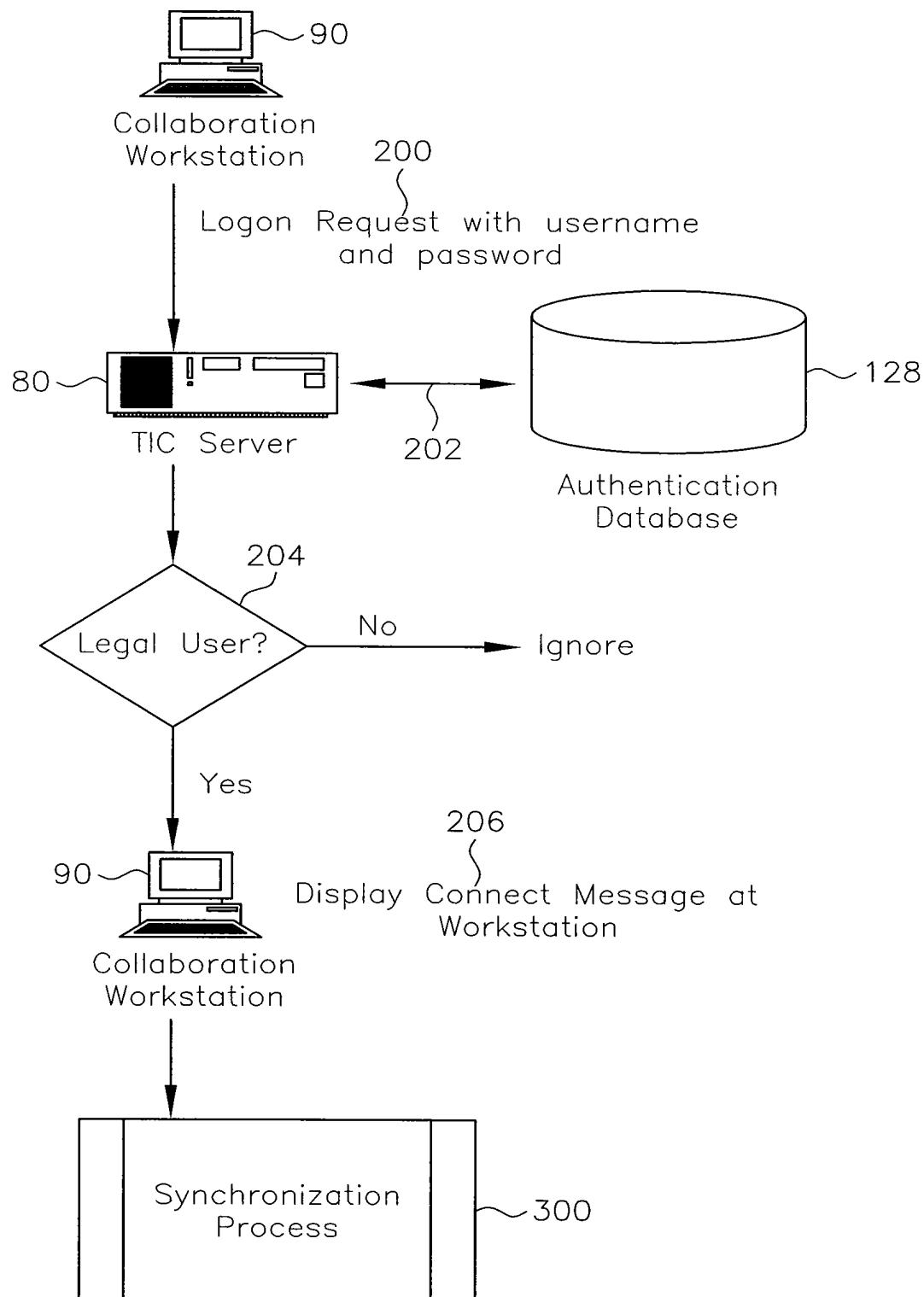
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	Field	Contents
110	AIDFileName	Unique AID file name containing userID and time/date information
112	Description	Text field entered by discussion participant when creating the comment contained in the AID file named above. This field is used by the TIC Workstation software to search for specific topics to play back.
114	LastPlaybackDate	This field records the date/time that the discussion participant last played the AID file. It is used to identify new, unviewed content.
116	Authorization	A security and access code field that defines the rights of the discussion participant to manipulate the AID file named (e.g. to delete or archive the file).
118	ParentItem	This field contains the ID of the logical parent of this entry. This field can be used to organize the discussion in a differing logical order, e.g. by topic or participant.
120	ChildItem	This field contains the ID of the logical parent of this entry. This field can be used to organize the discussion in a differing logical order, e.g. by topic or participant.
122	LeftSiblingItem	This field contains the ID of the logical sibling preceding this entry. If the discussion is organized in pseudo-chronological form, this is the DSOB item immediately preceding this item in the chronology.
124	RightSiblingItem	This field contains the ID of the logical sibling following this entry. If the discussion is organized in pseudo-chronological form, this is the DSOB item immediately following this item in the chronology.
126	Status	This is an internal field used by the TIC Server to identify the state of this item, e.g. archived or active.

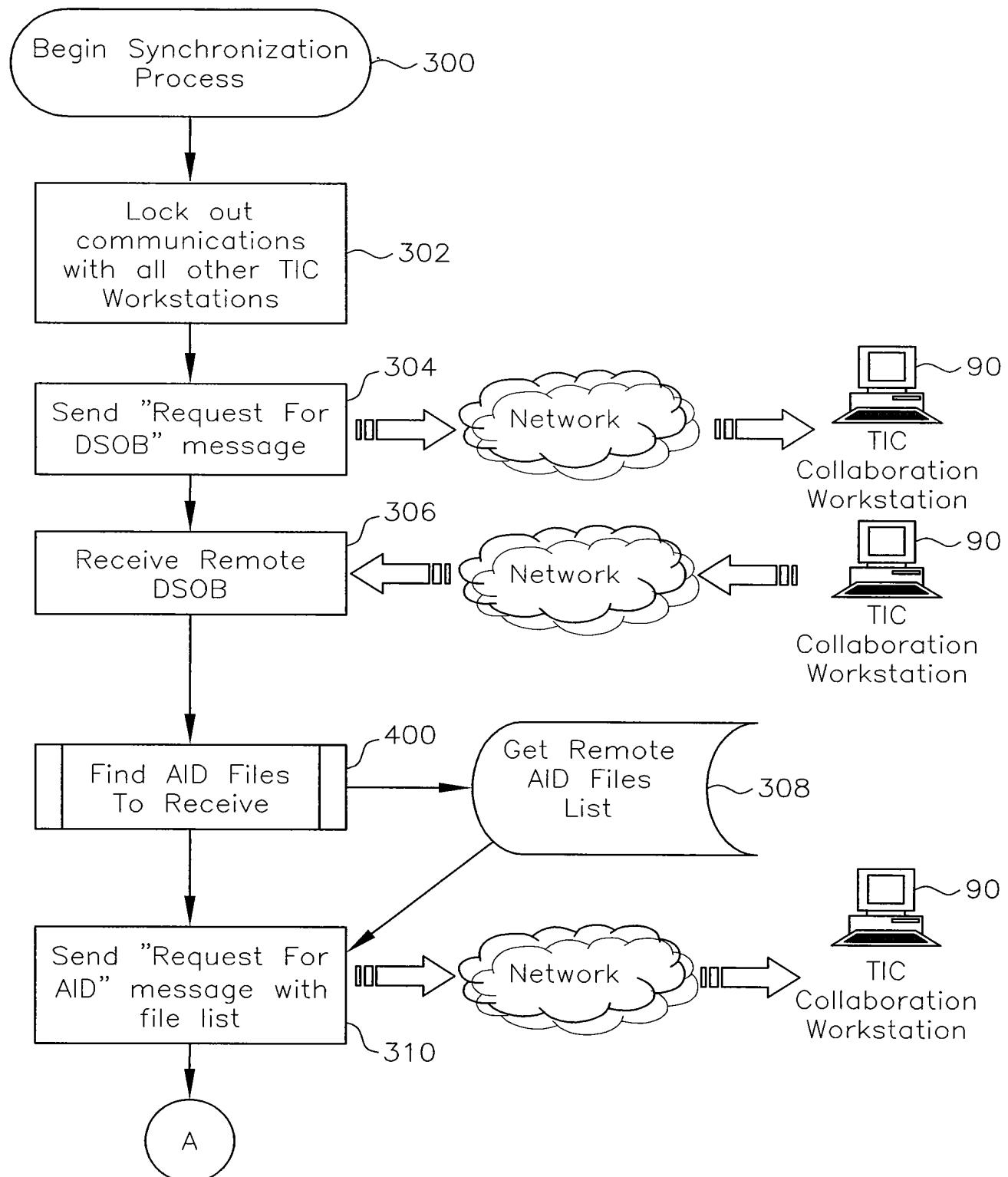
FIG. 5

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**FIG. 7A**

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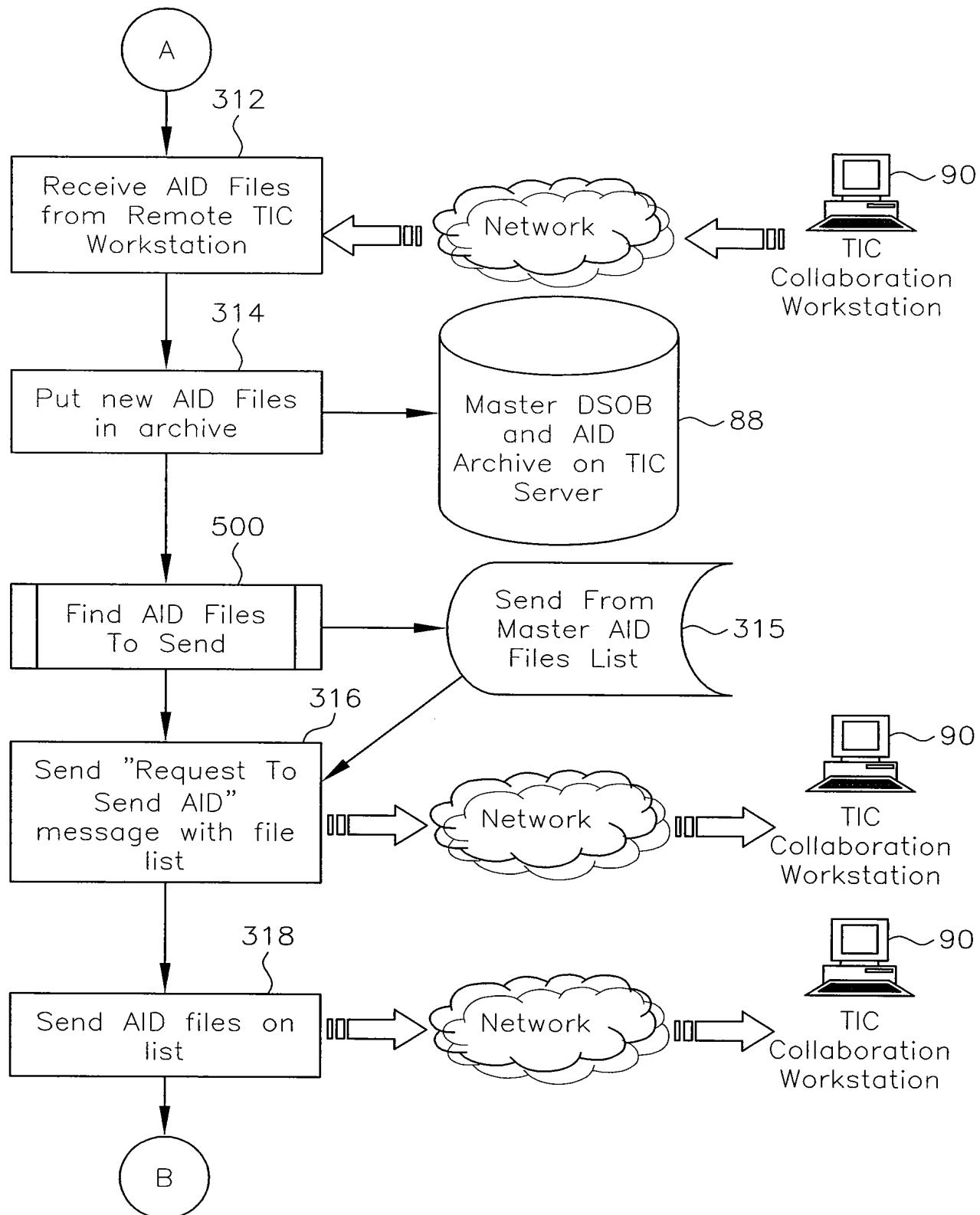
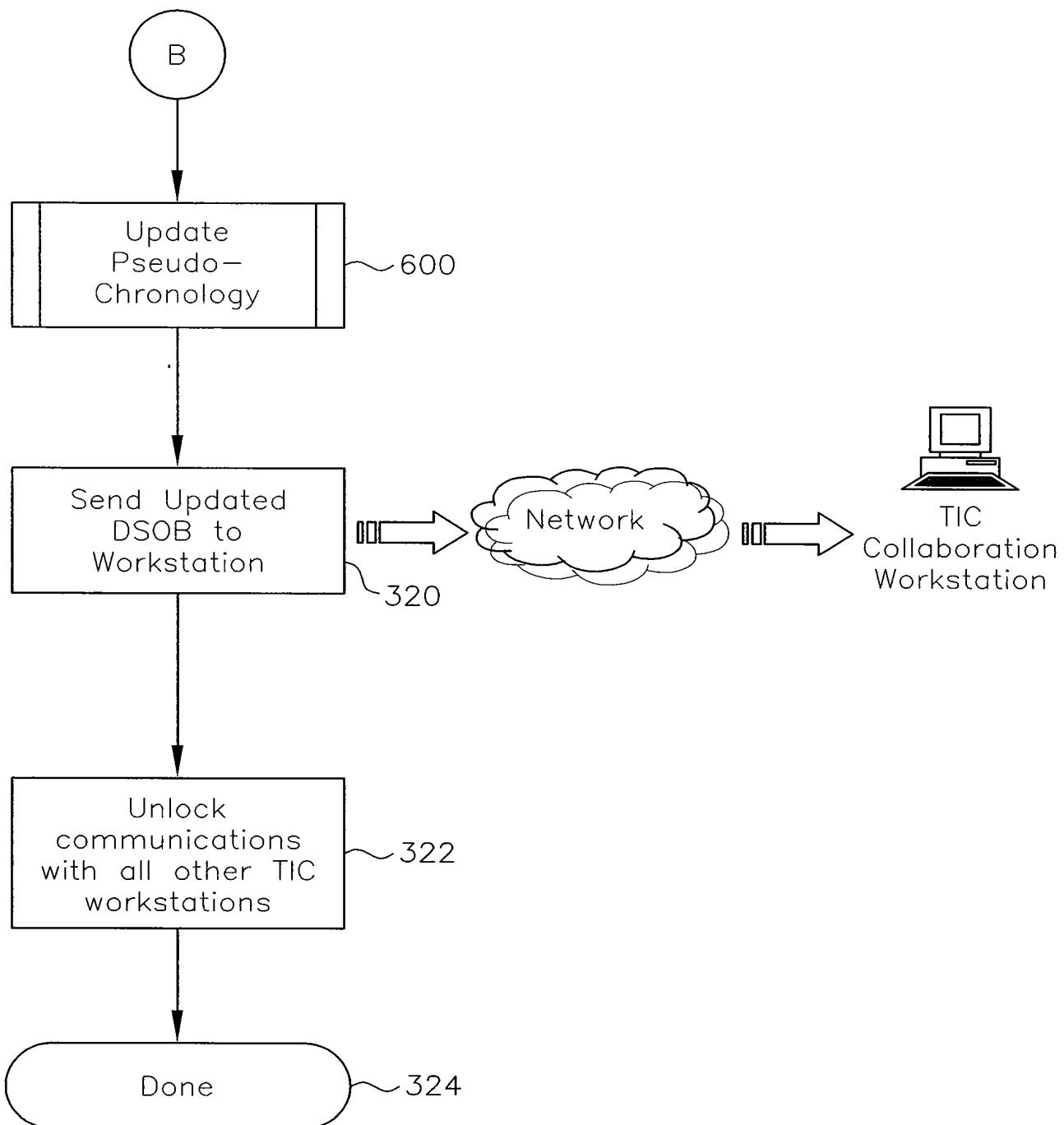
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FIG. 7B

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

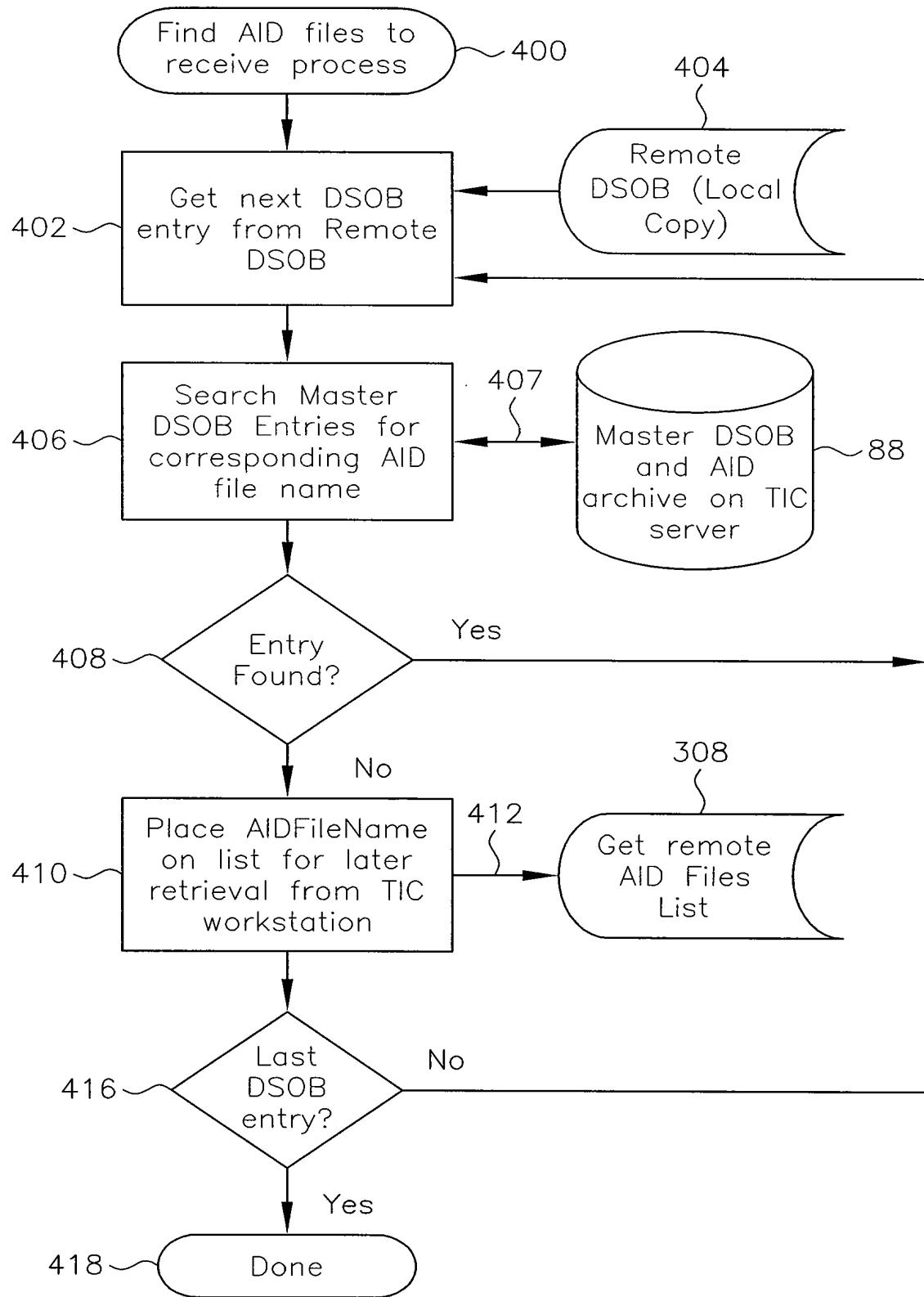
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FIG. 8

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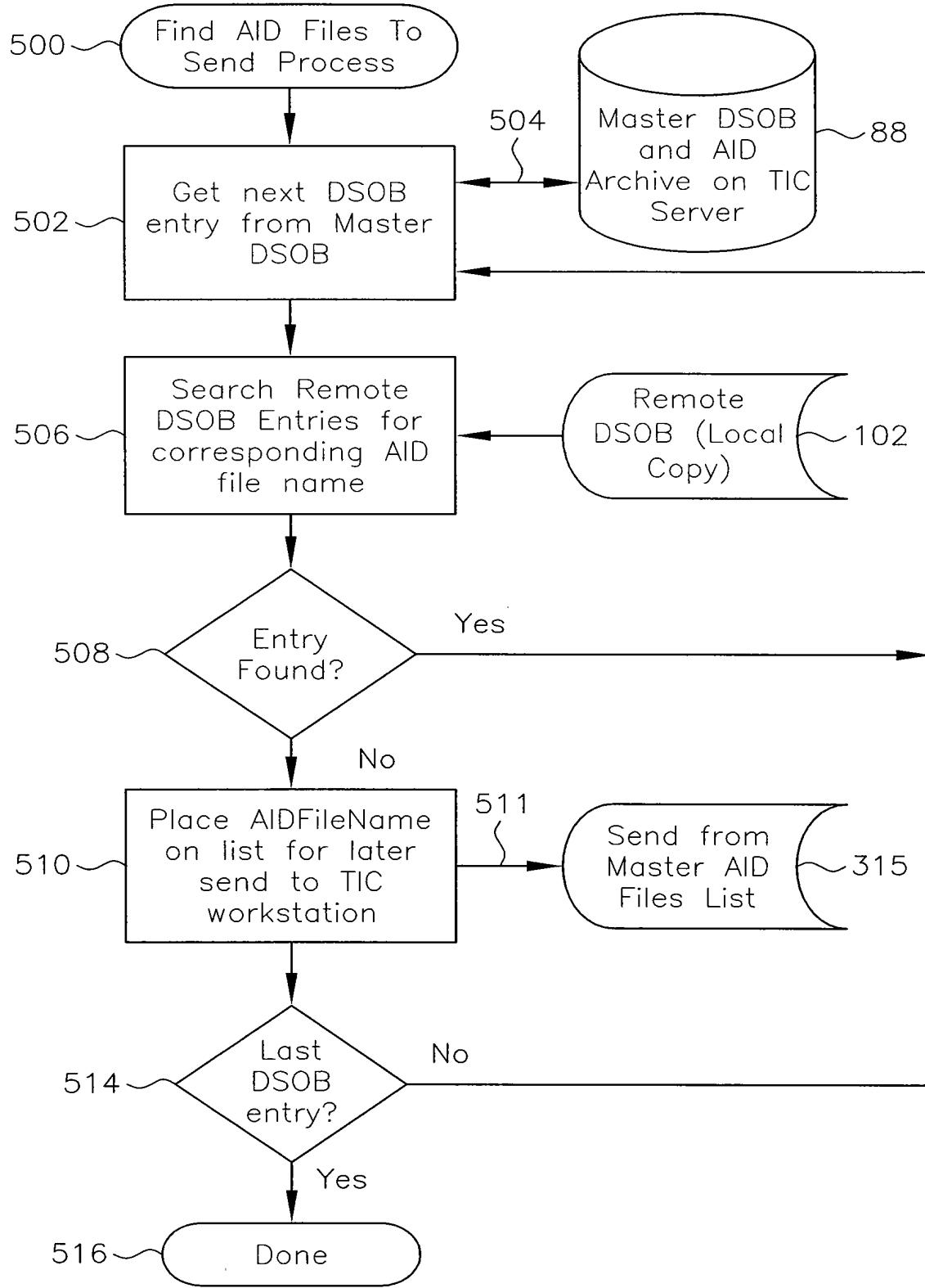
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FIG. 9

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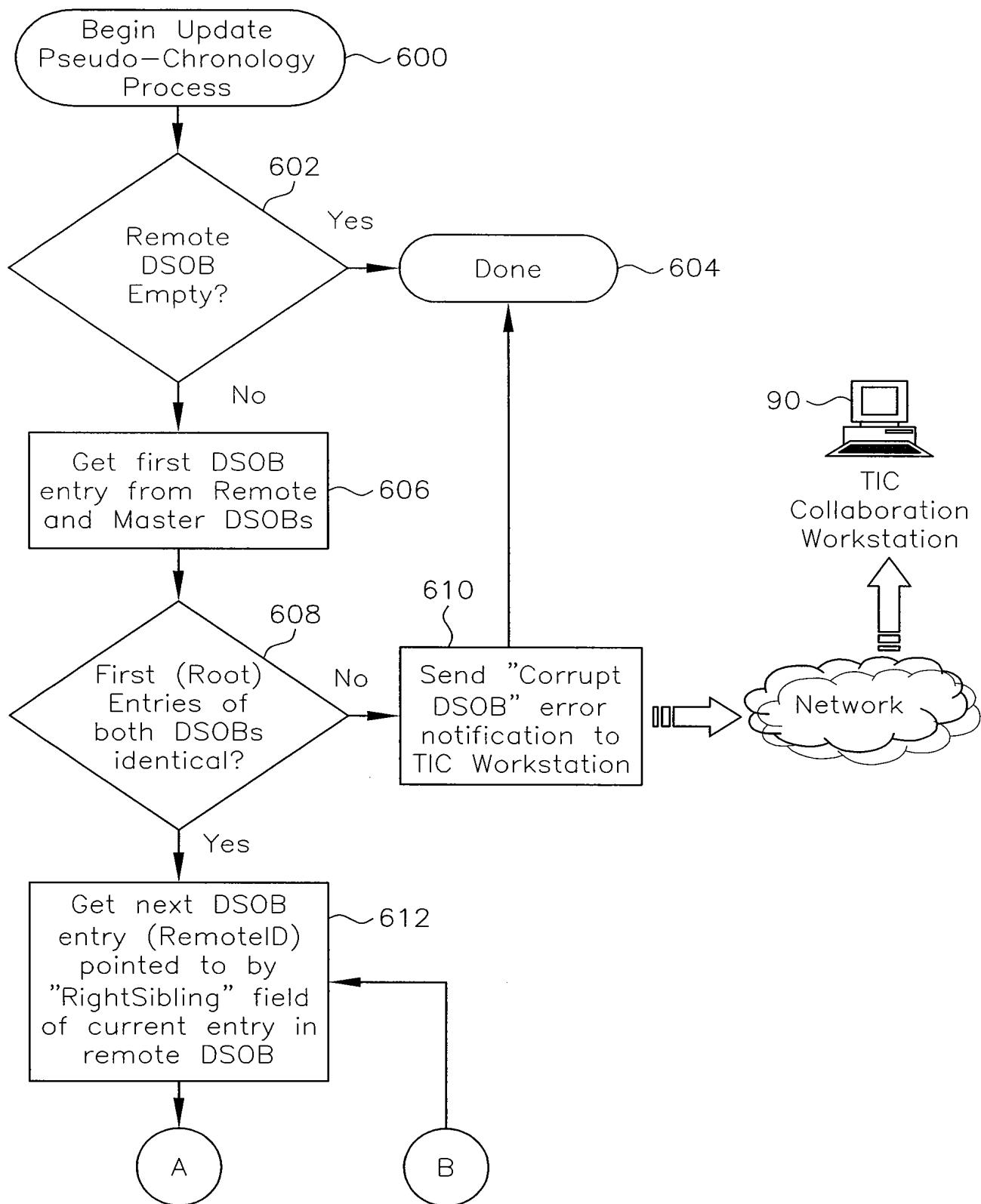
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FIG. 10A

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

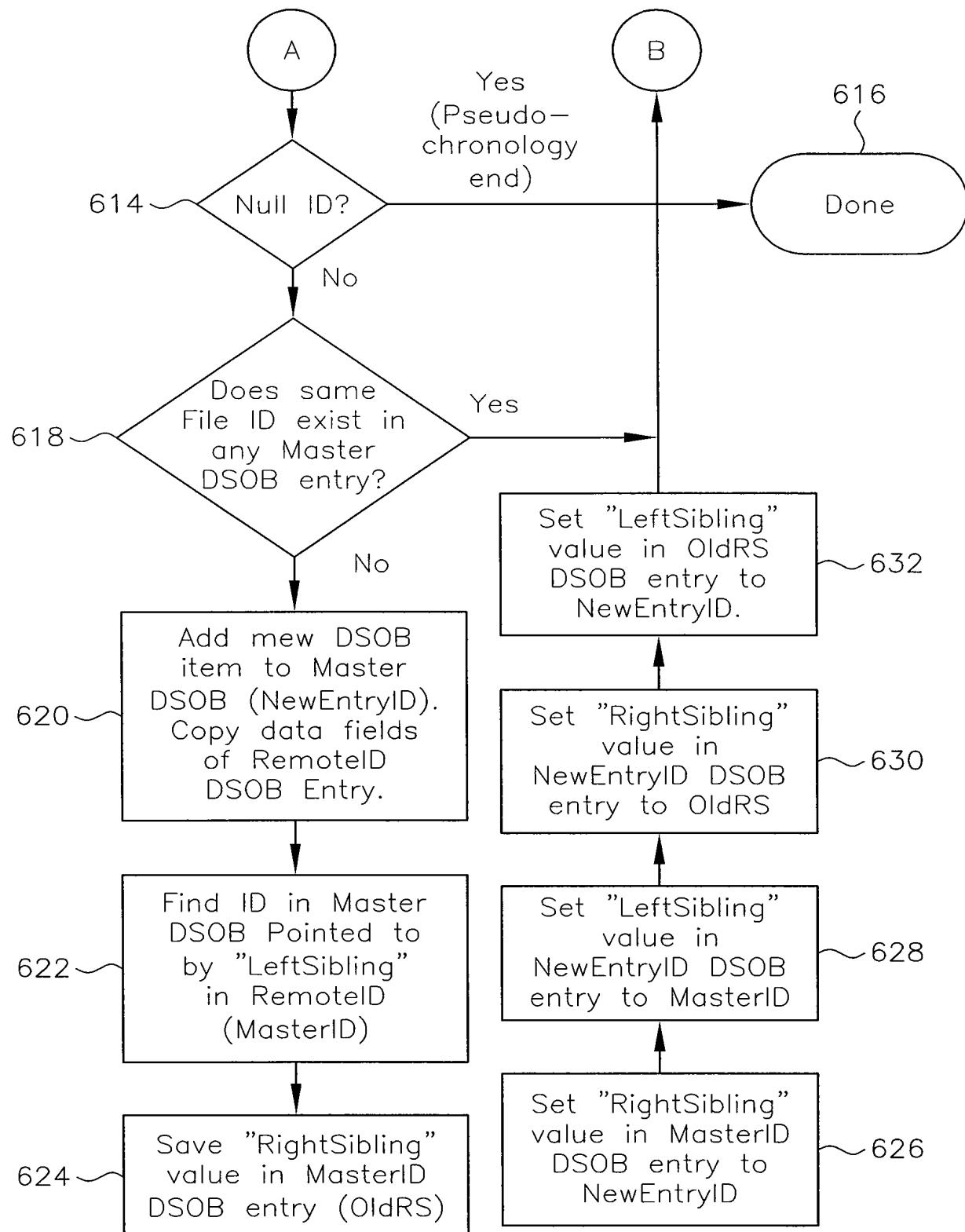
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FIG. 10B

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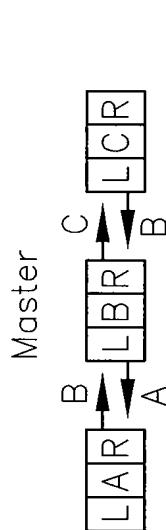
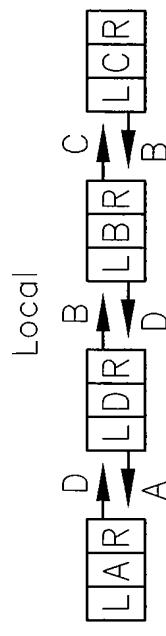


FIG. 10C

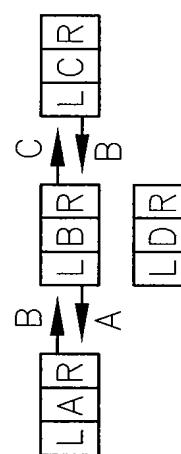


FIG. 10D

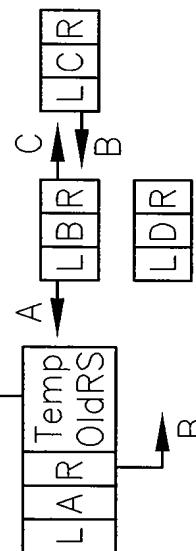


FIG. 10E

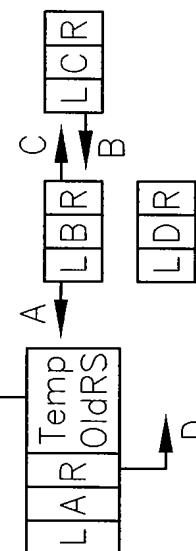


FIG. 10F

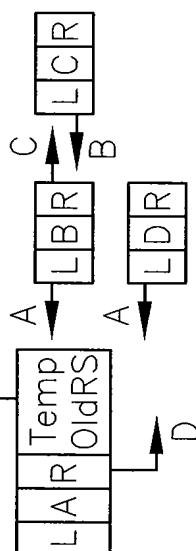
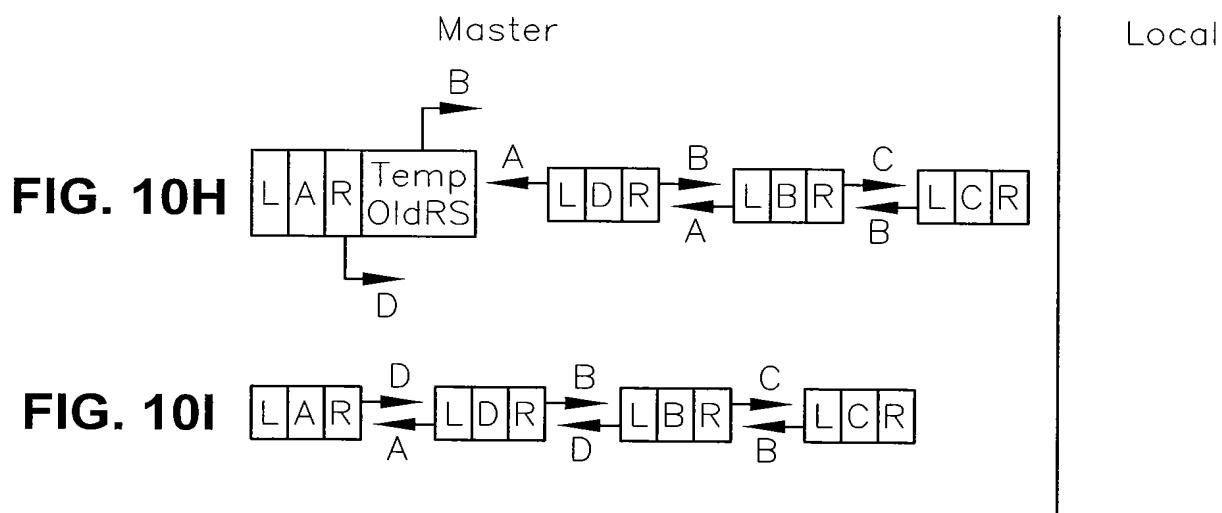


FIG. 10G

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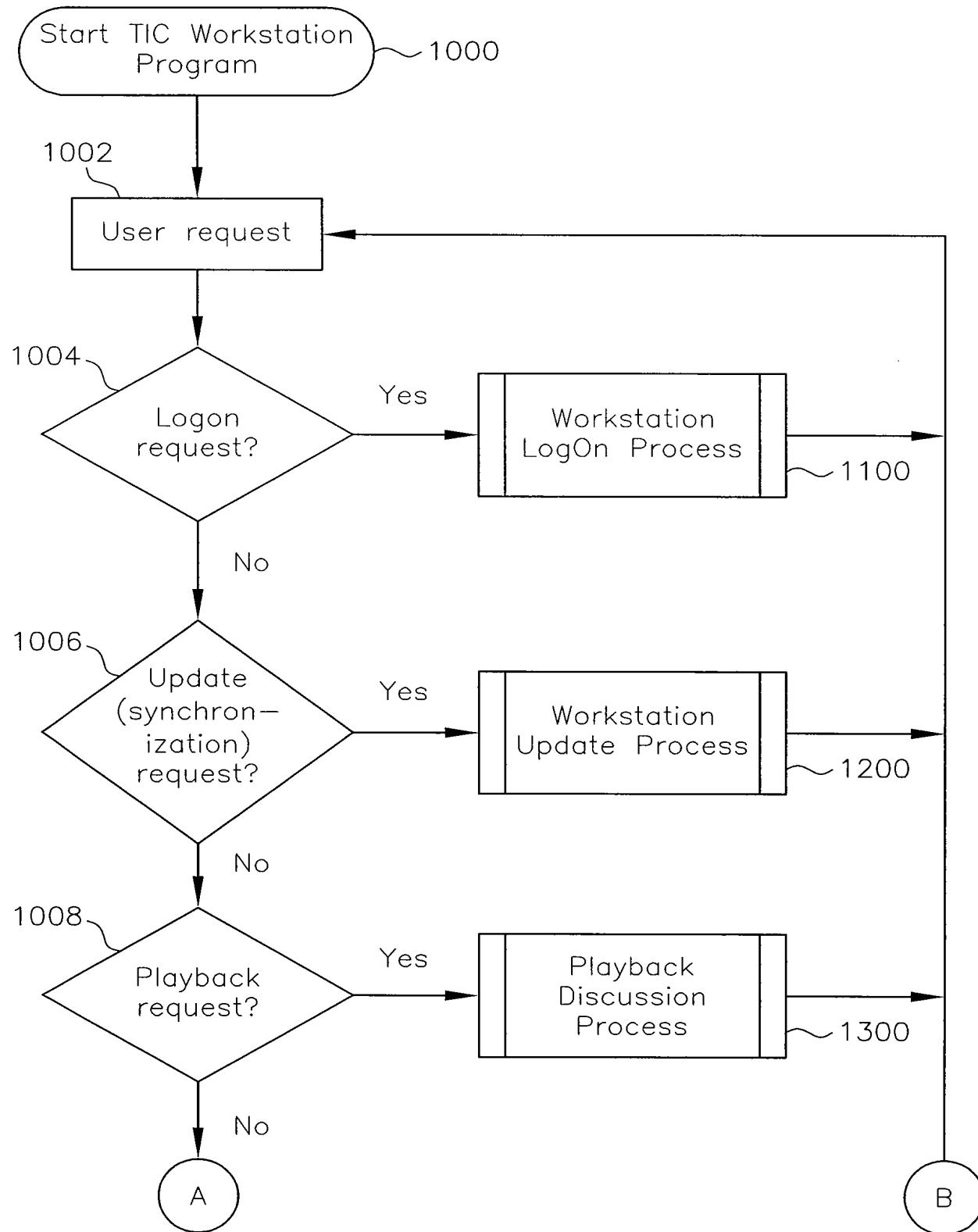
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FIG. 11A

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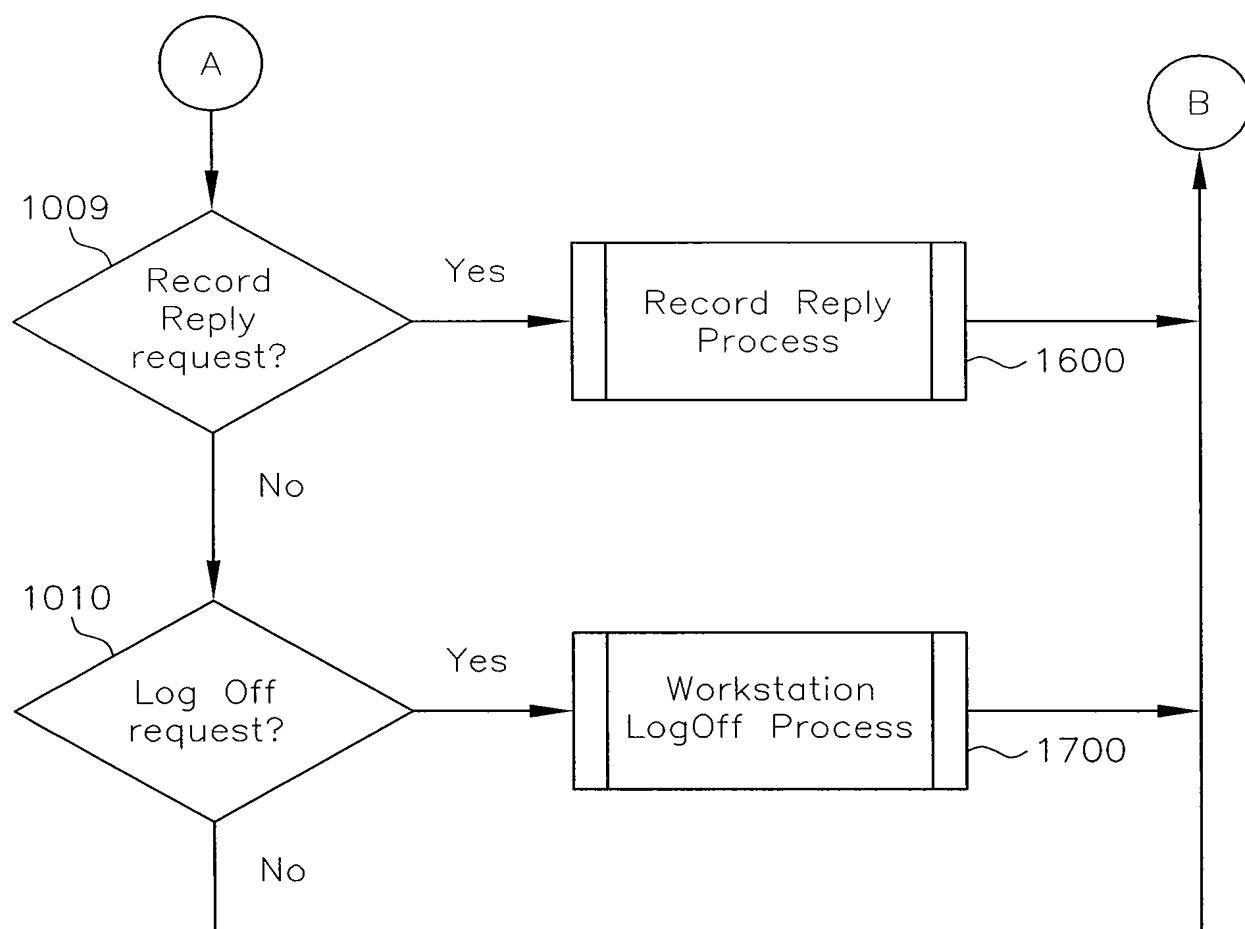


FIG. 11B

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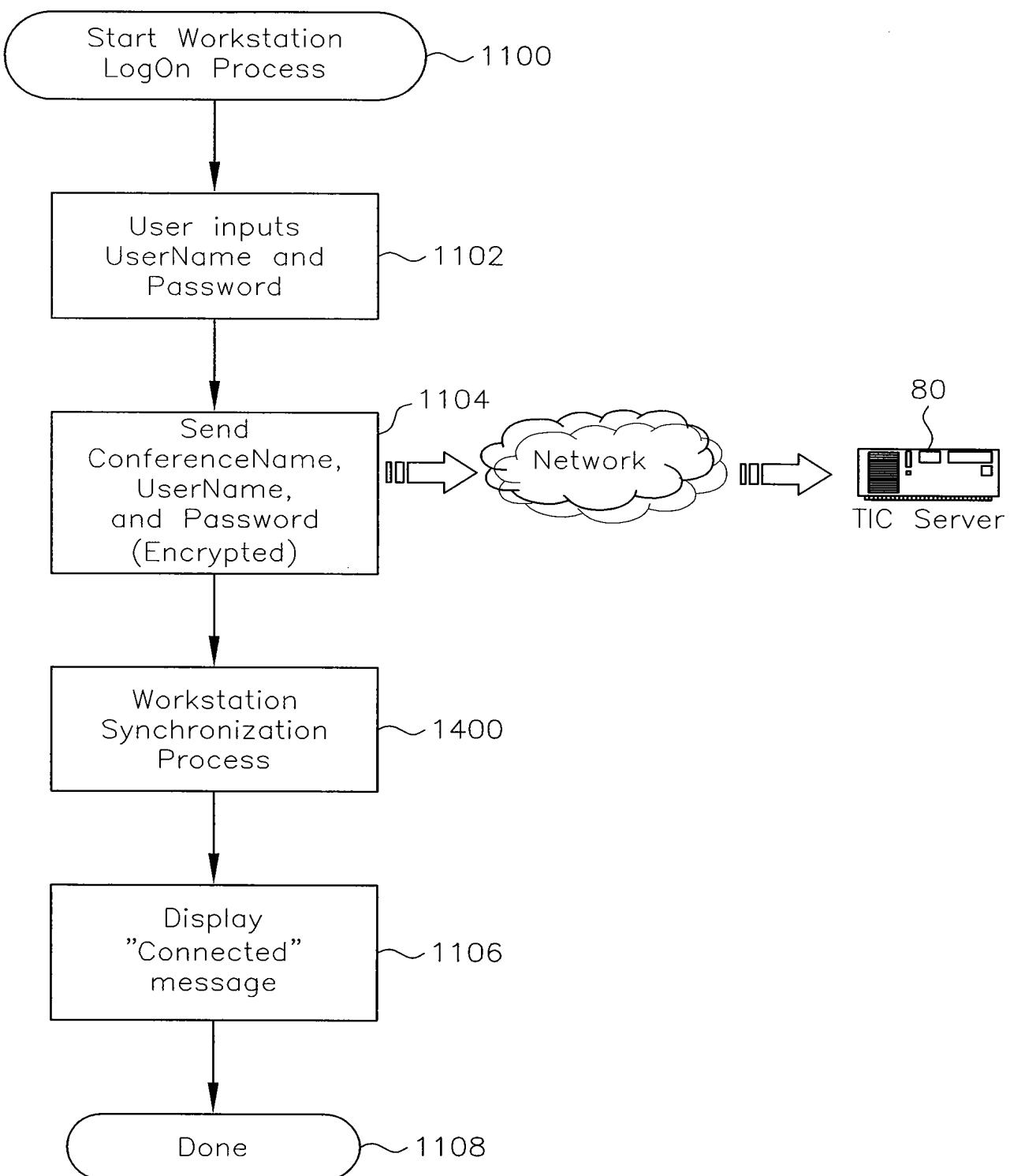


FIG. 12

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

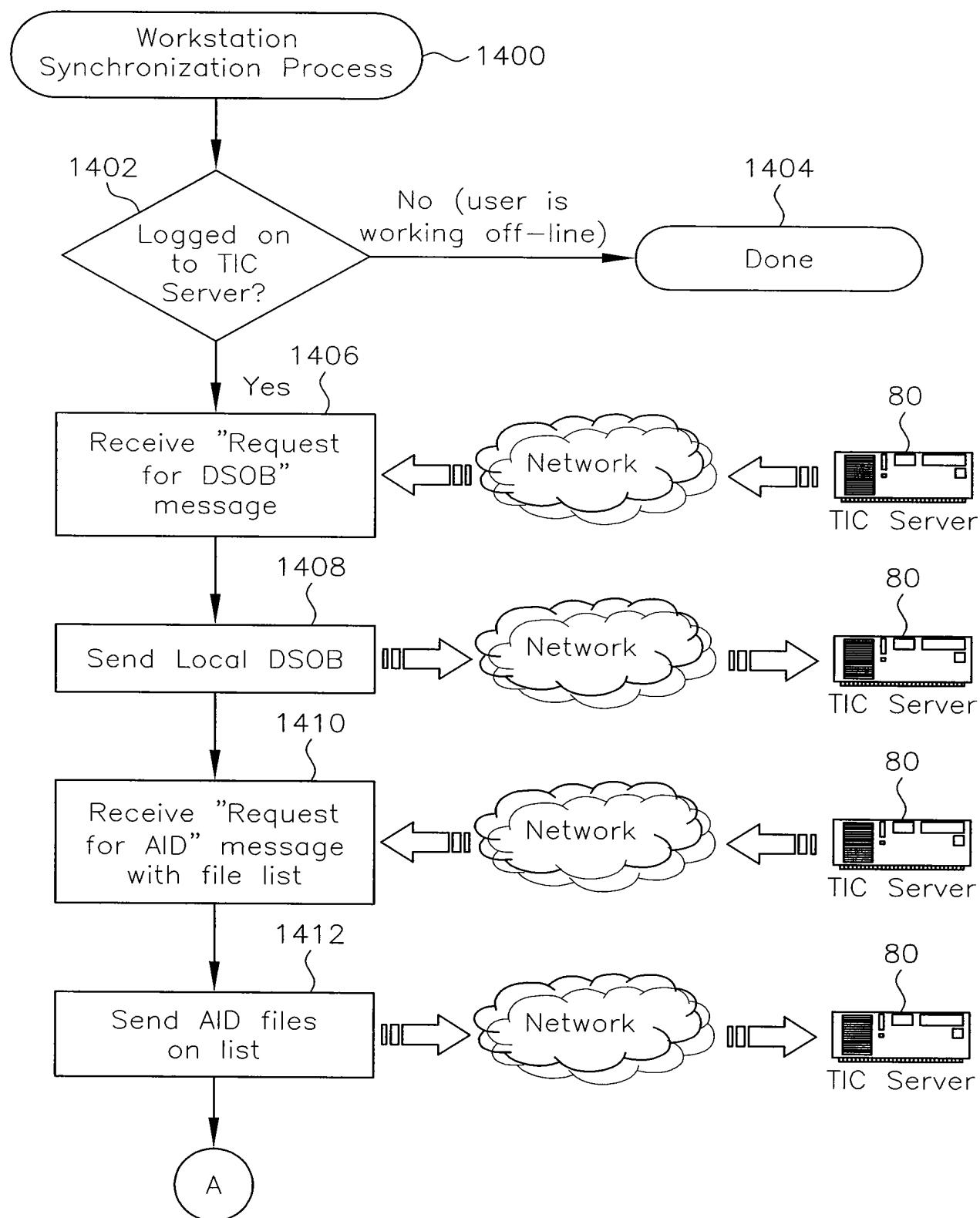
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FIG. 13A

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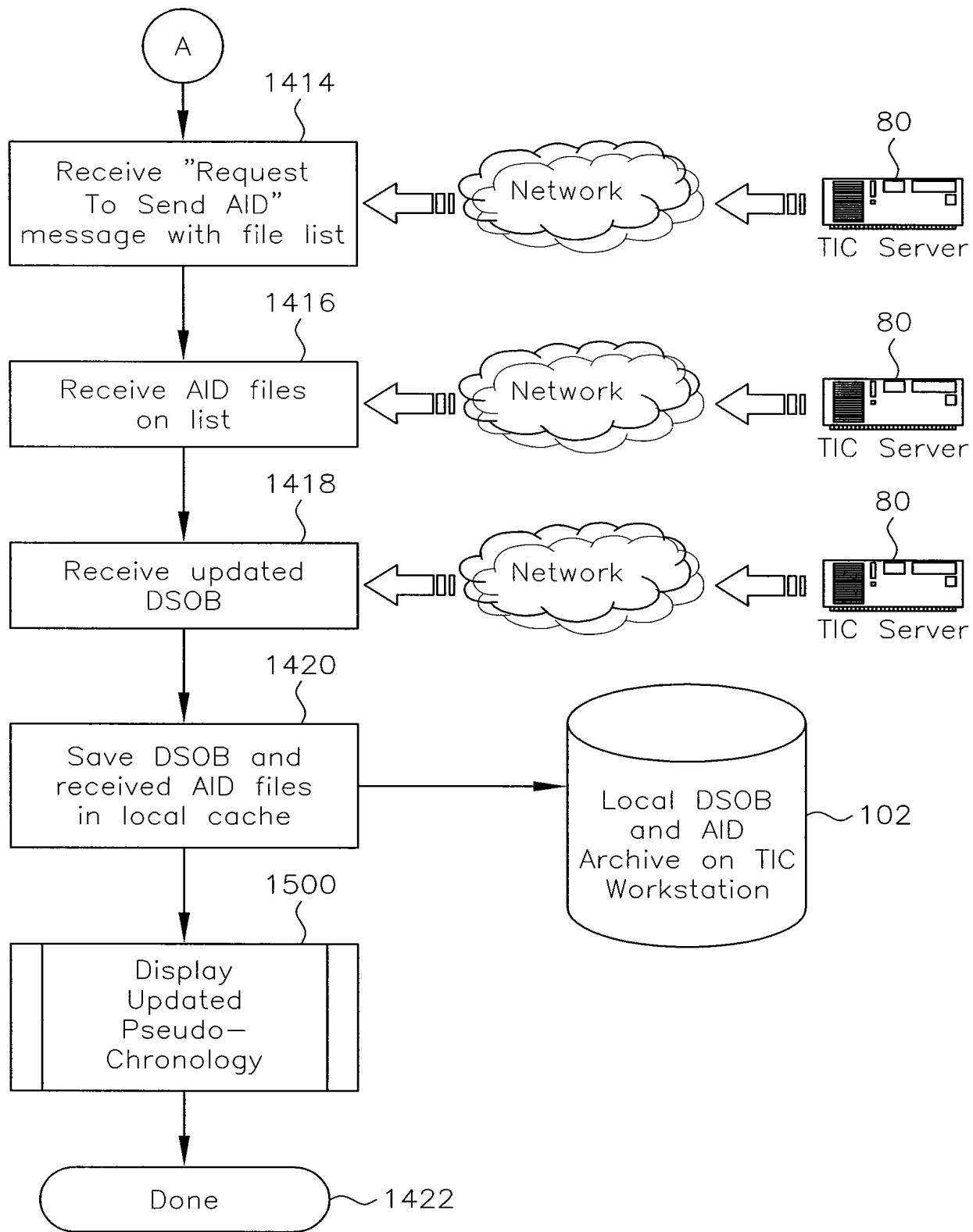
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FIG. 13B

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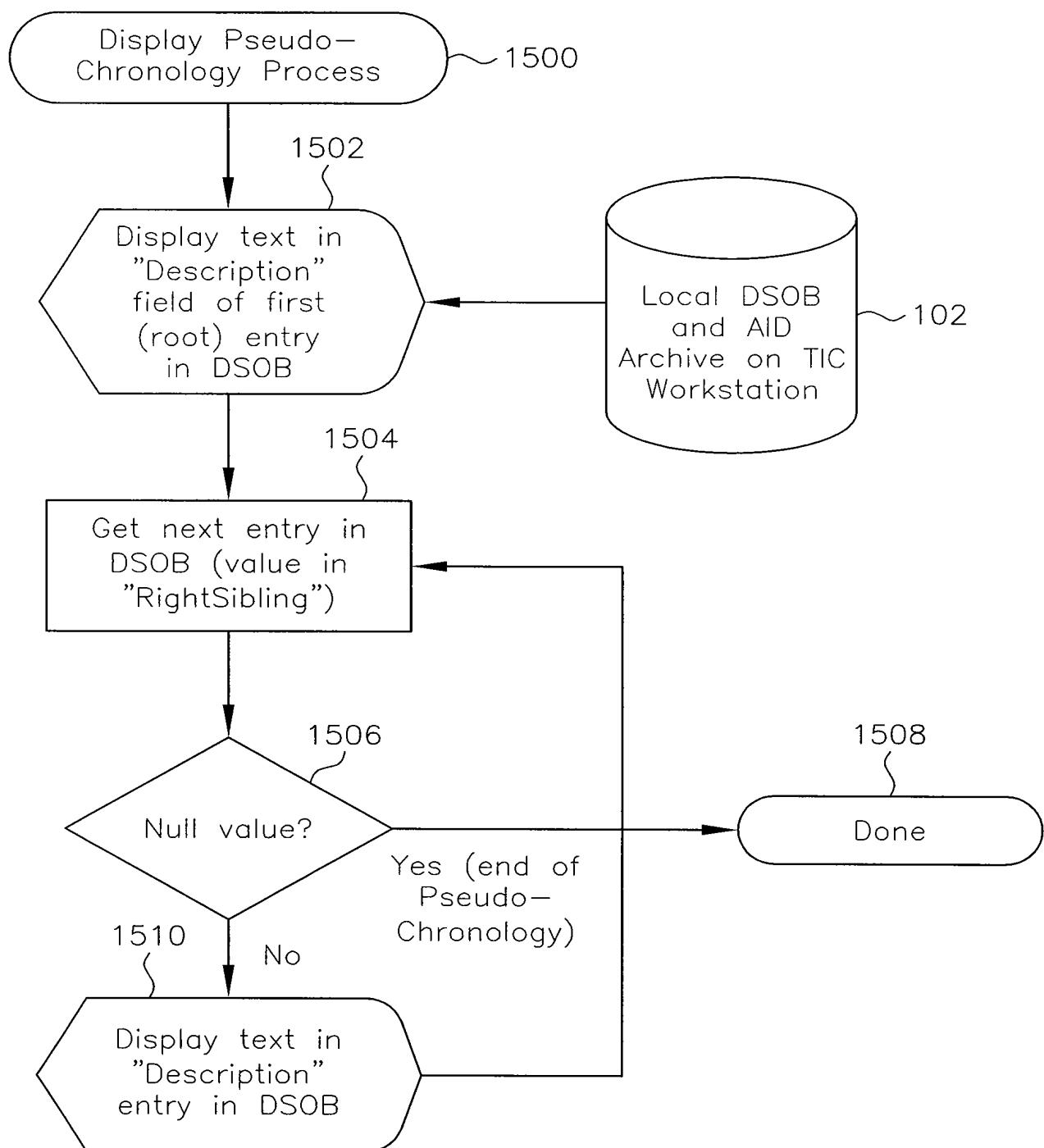
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FIG. 14

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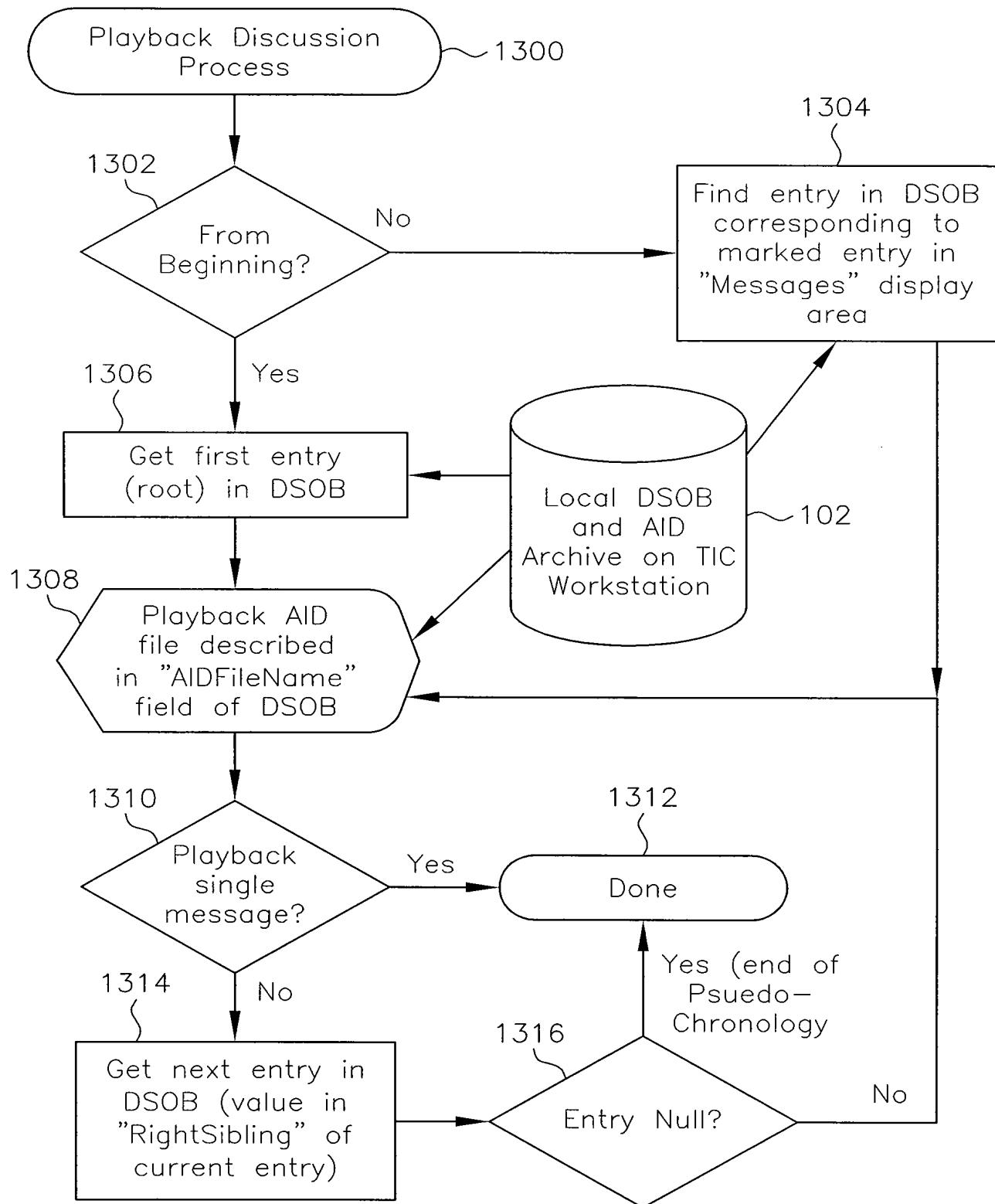


FIG. 15

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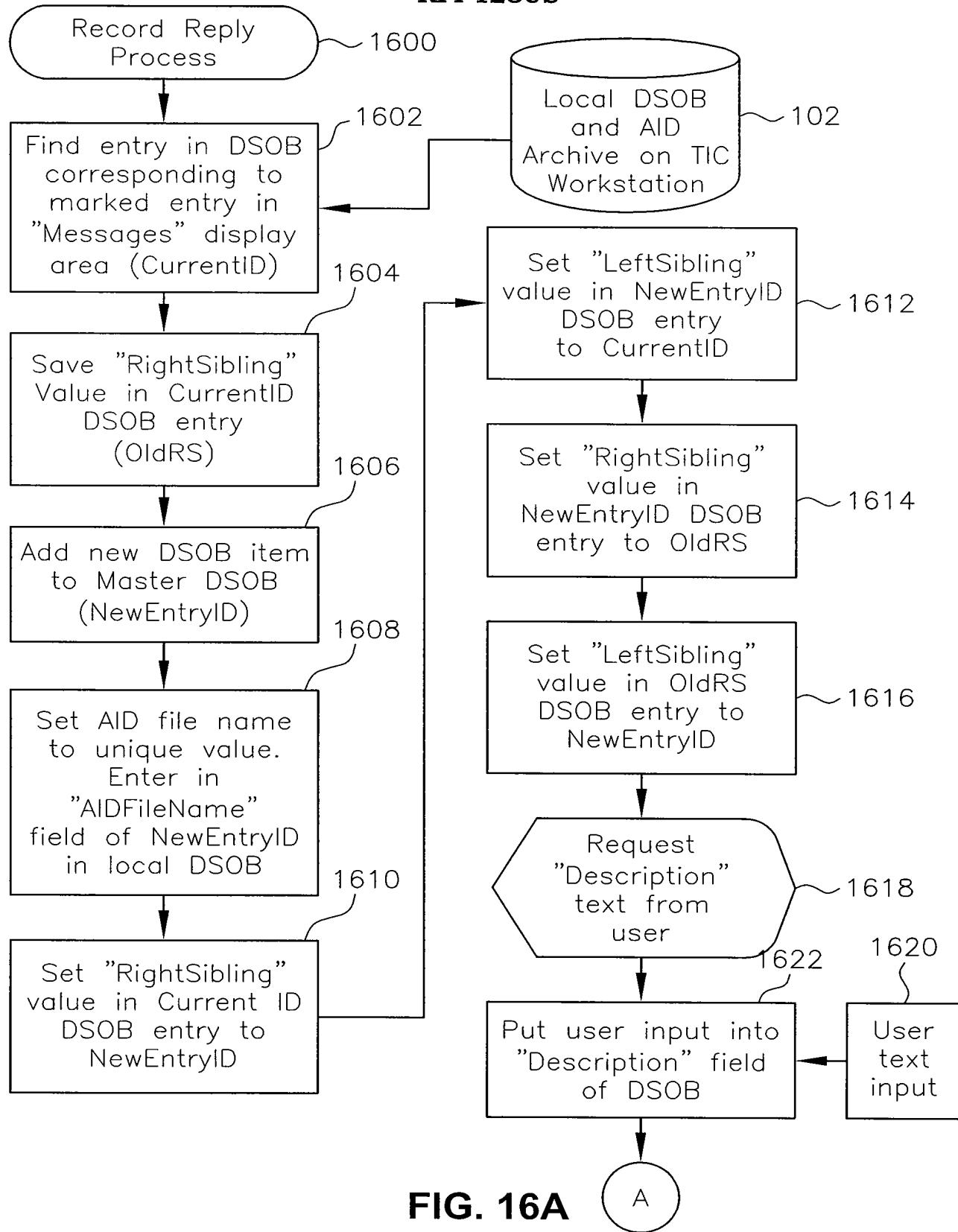
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FIG. 16A

A

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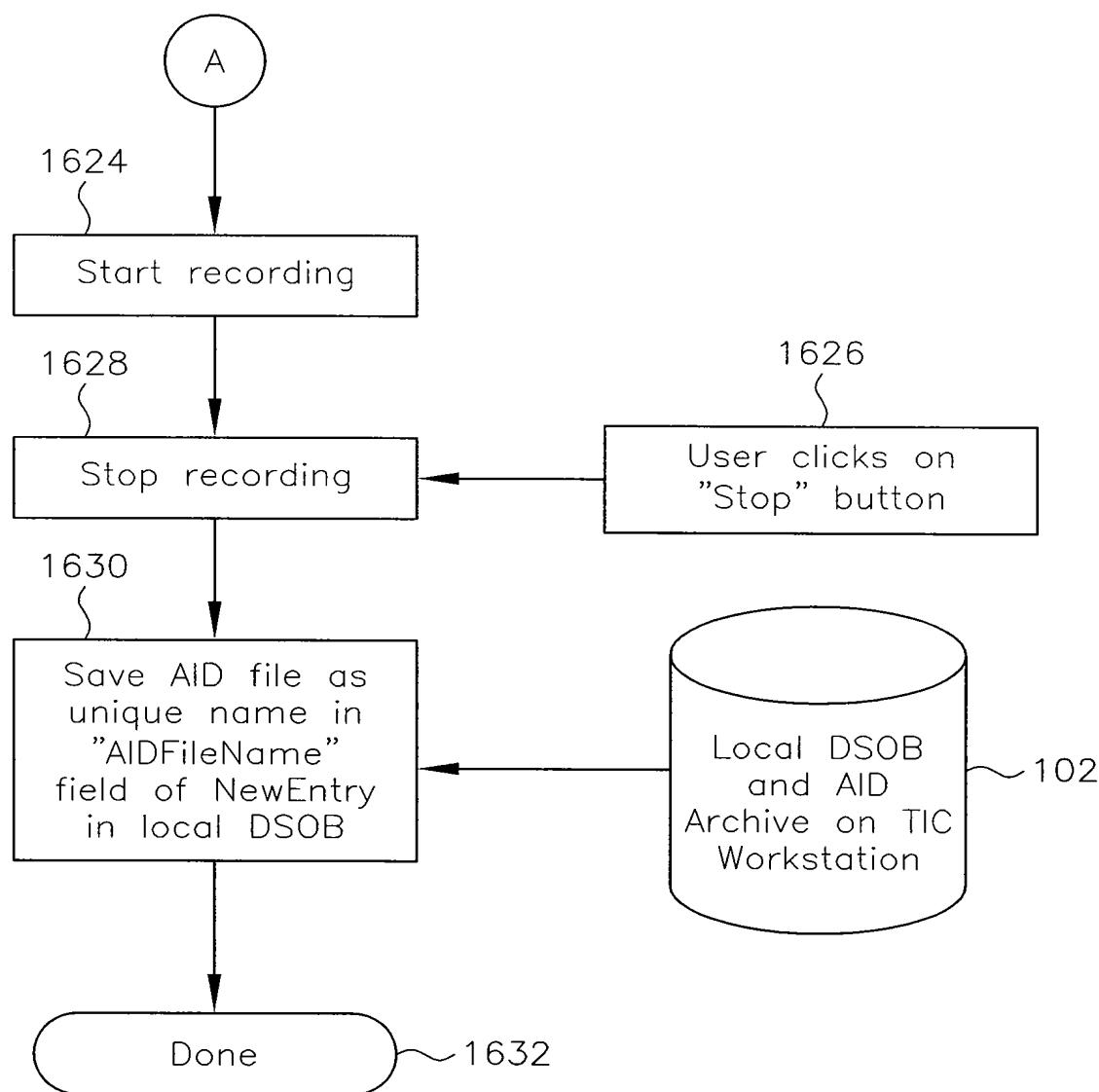
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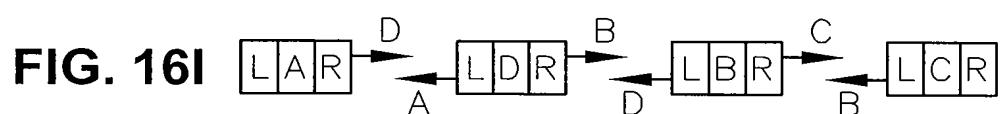
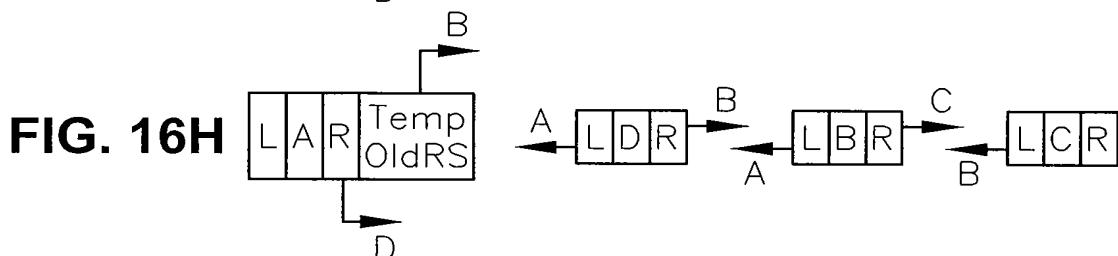
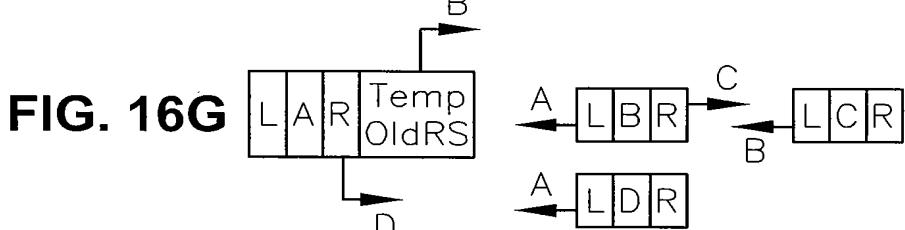
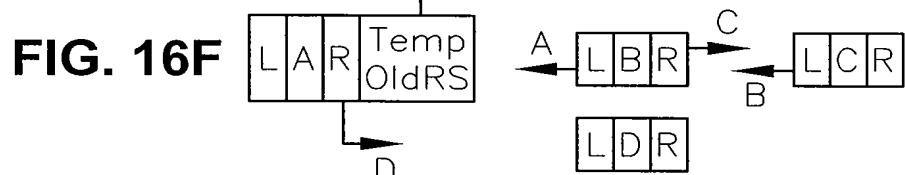
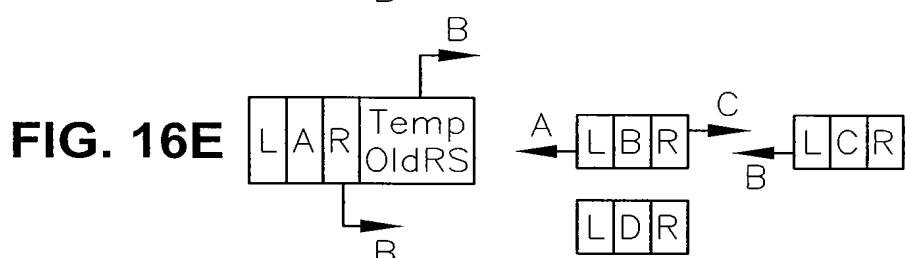
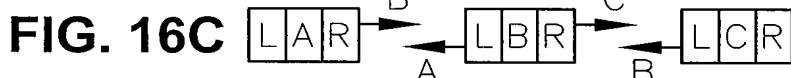
FIG. 16B

ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

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Local



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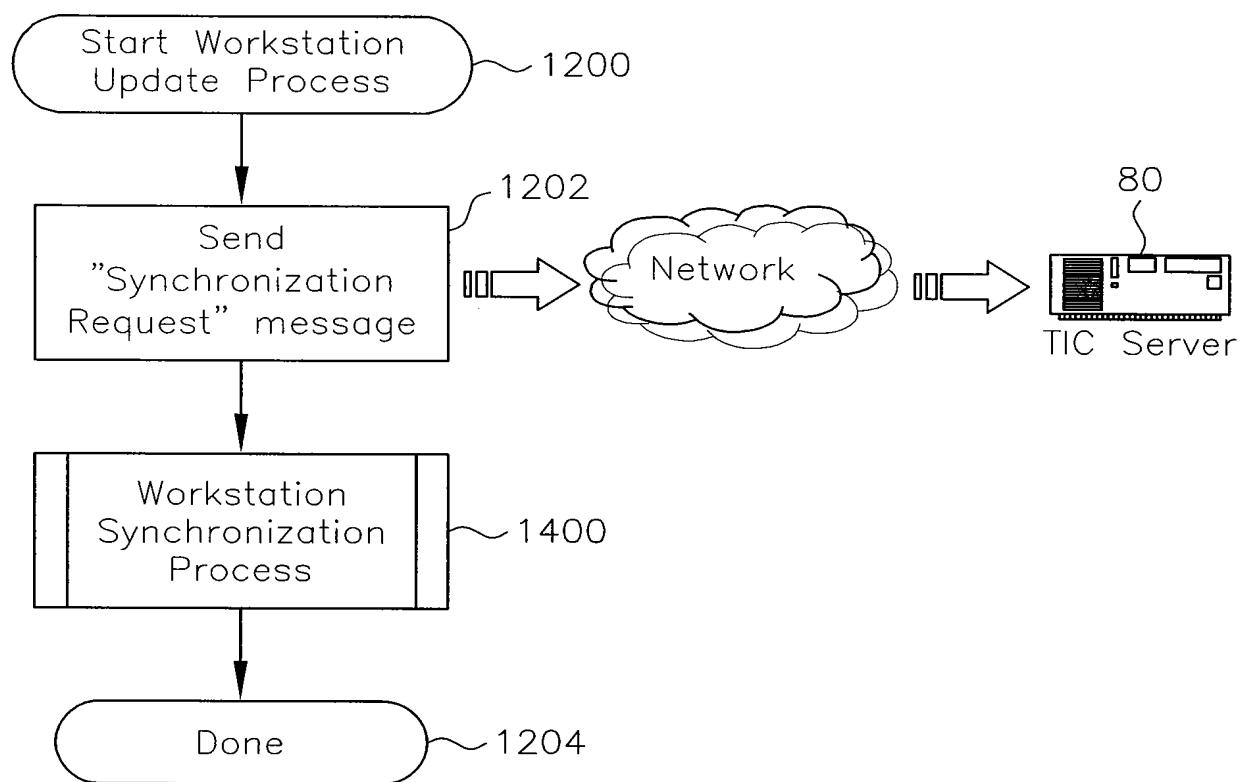


FIG. 17

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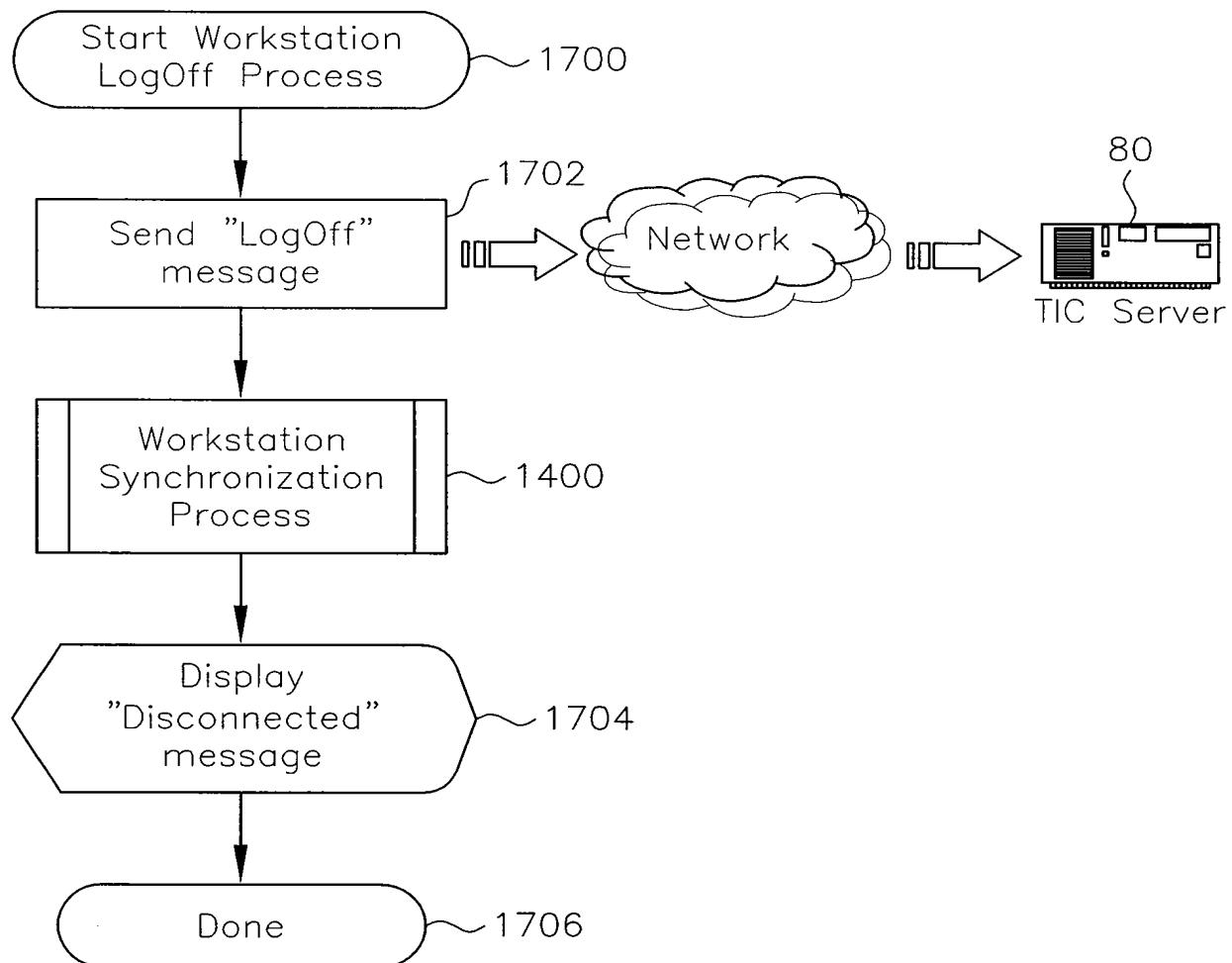


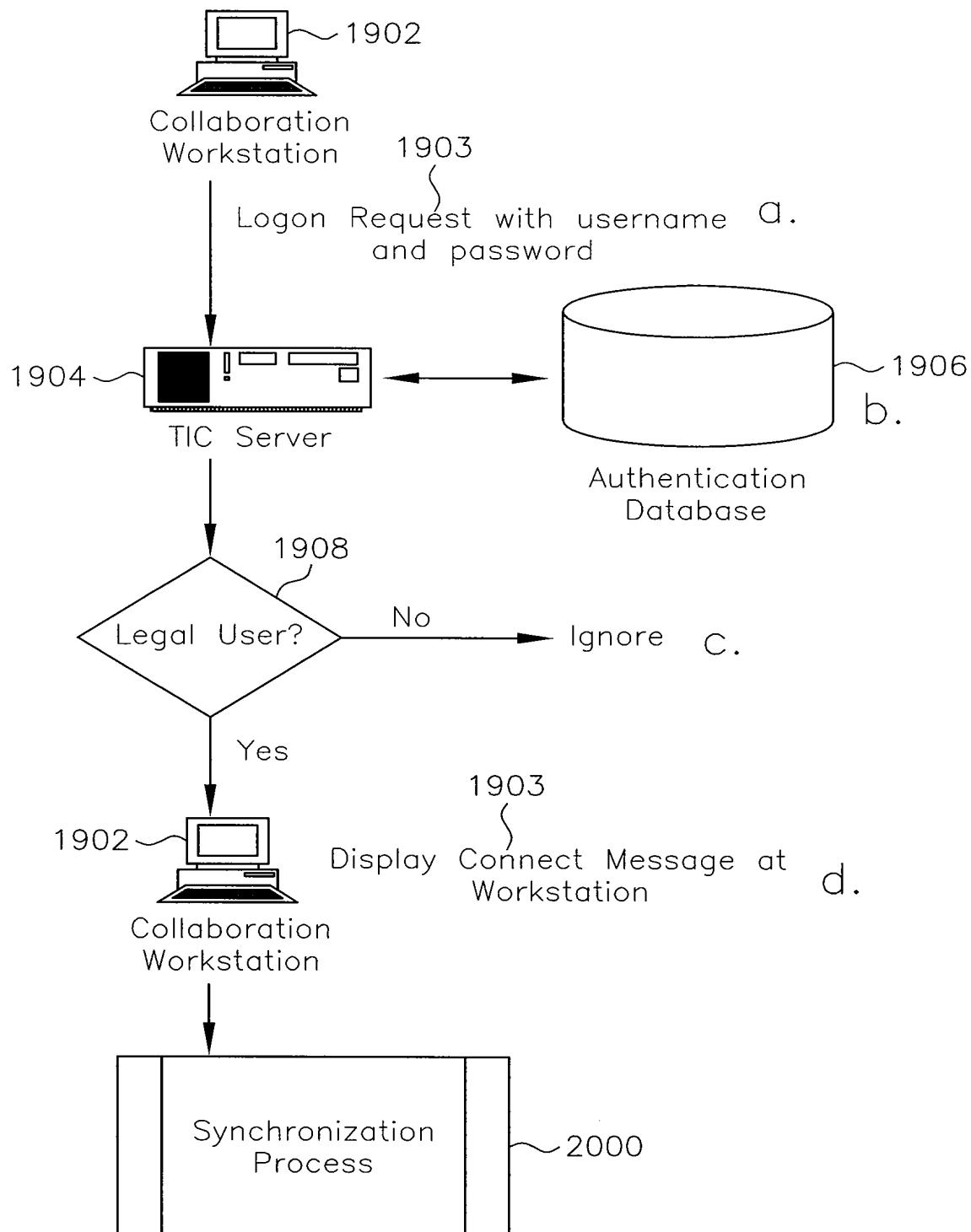
FIG. 18

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

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Connect (Logon) Sequence

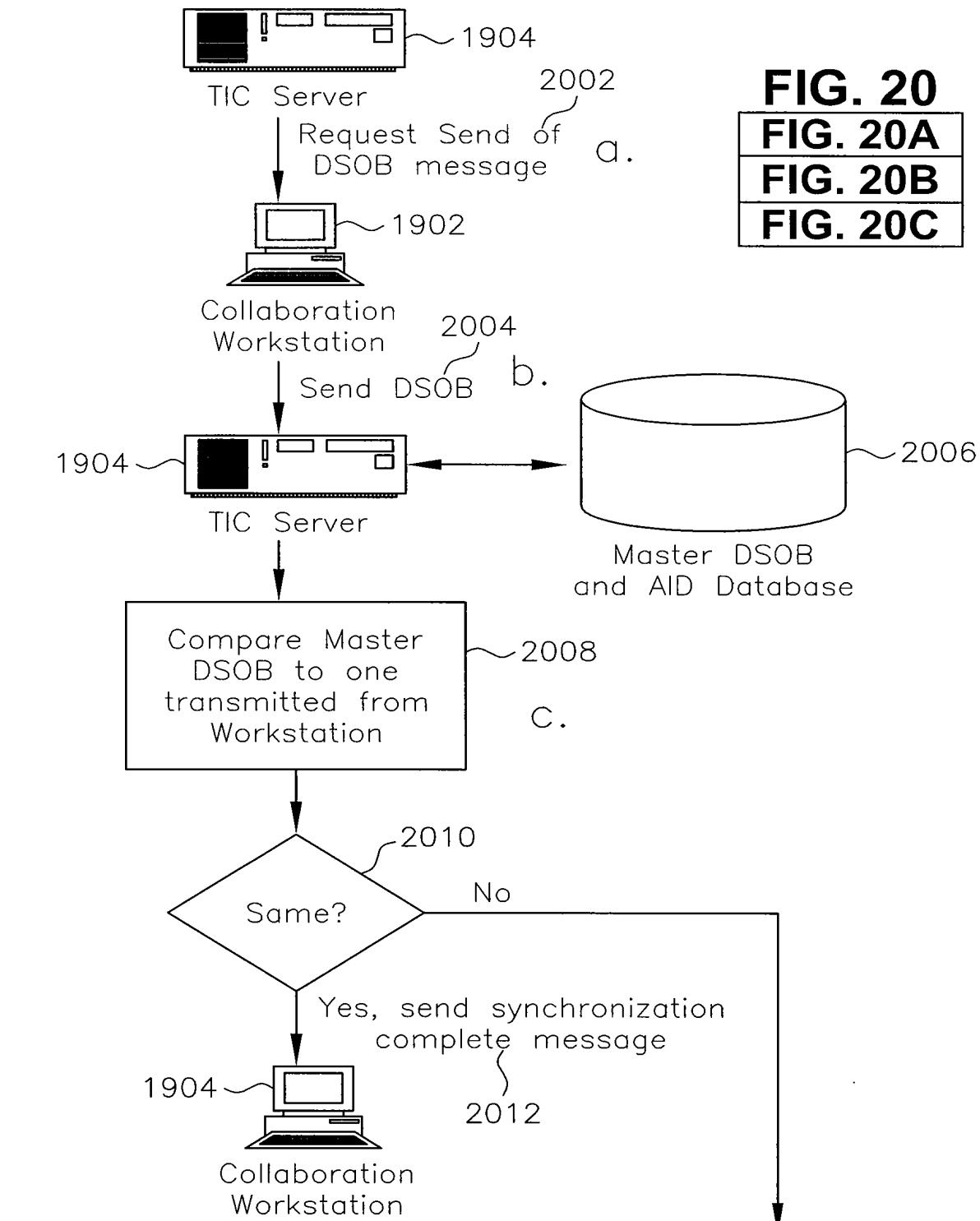
**FIG. 19**

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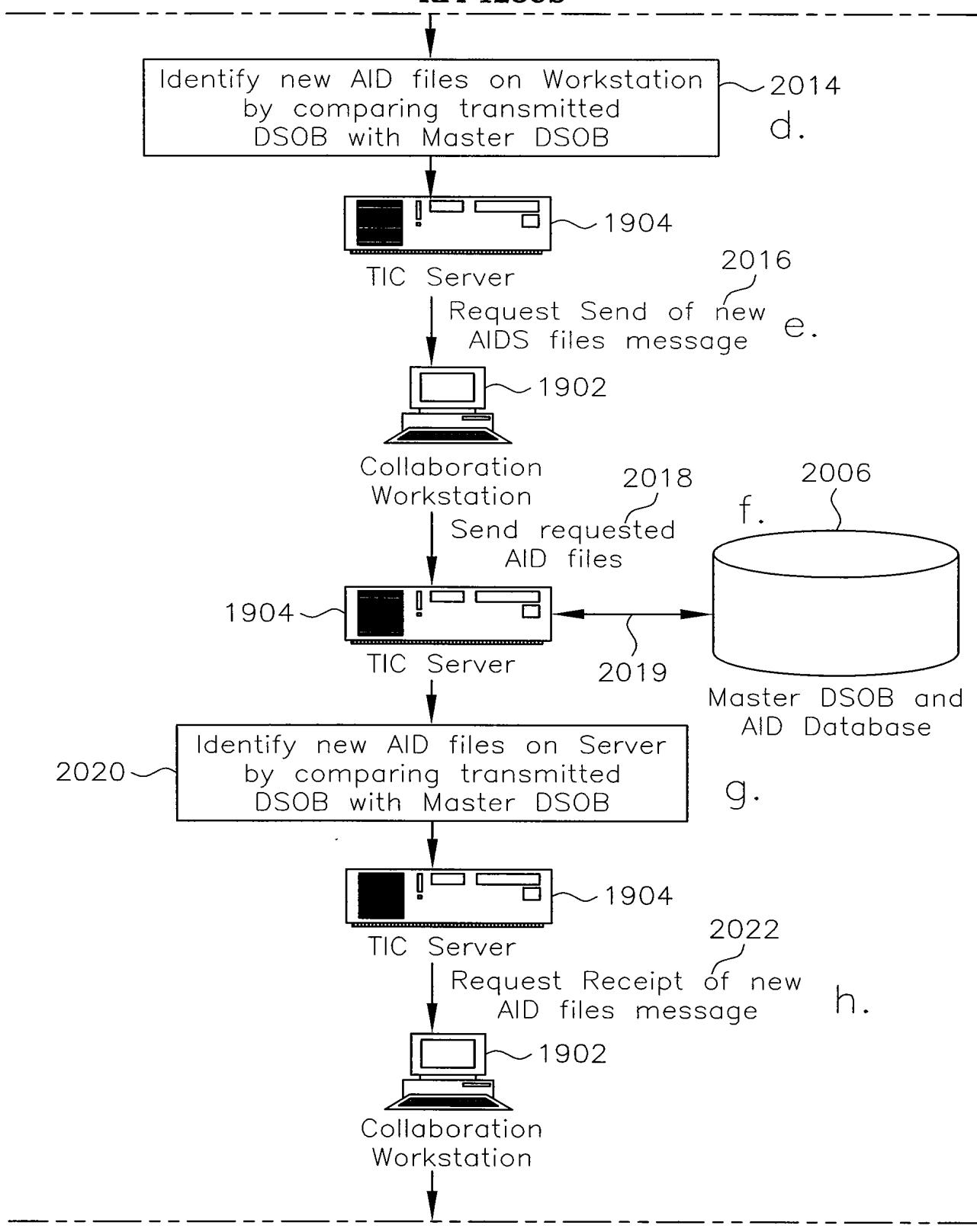
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Synchronization Process—Step 2000

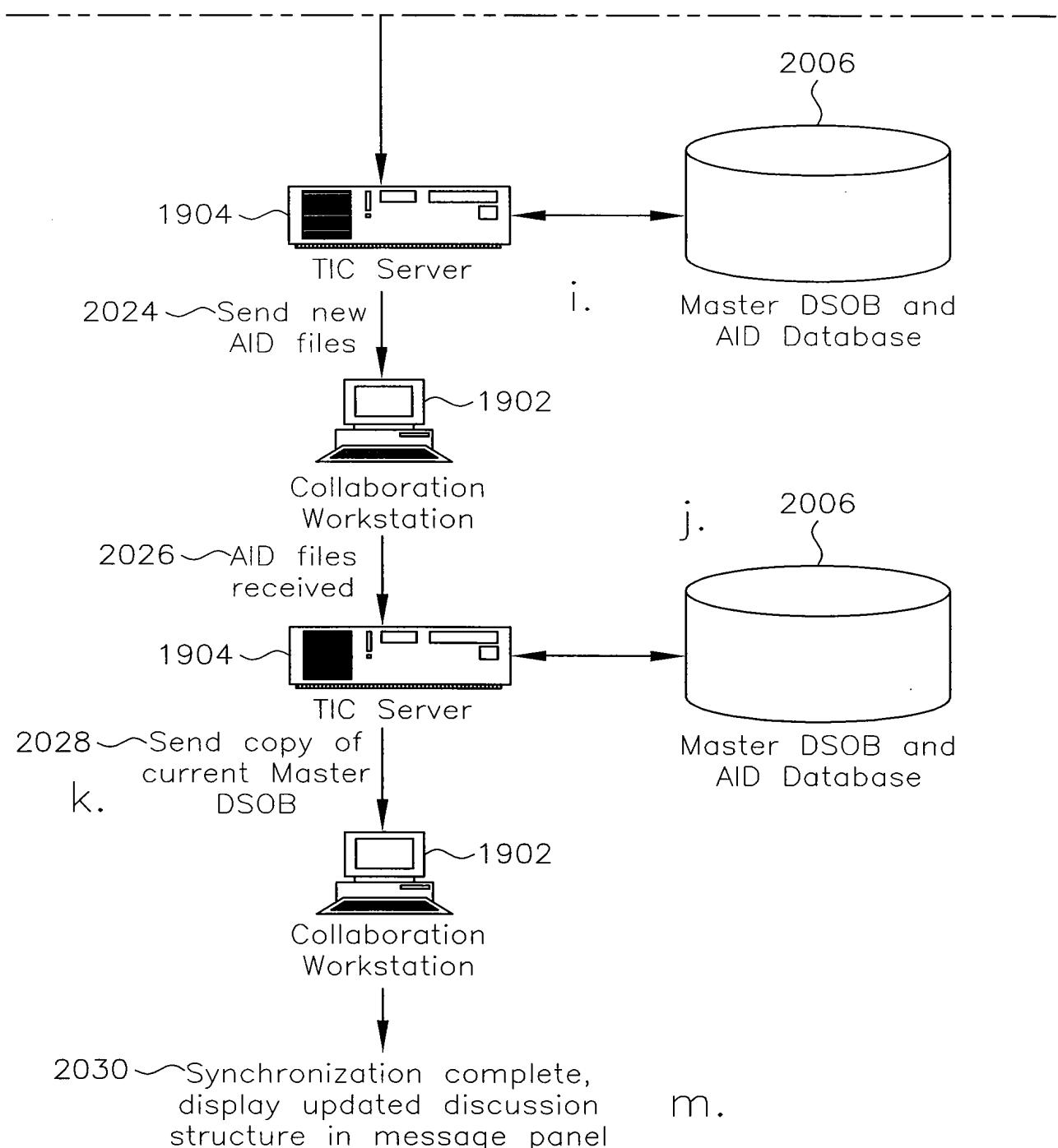
**FIG. 20****FIG. 20A****FIG. 20B****FIG. 20C****FIG. 20A**

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM**James H. Watt****RPI-123US****FIG. 20B**

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

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DSOB Entries

a. After first posting from Allison

2100

Field	Contents
AIDFileName	PersonA2003-05-01-9-00-00
Description	Hello from Allison
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	(null)
RightSiblingItem	(null)
Status	Archived

FIG. 21A

b. After second posting from Dave

2110

Field	Contents
AIDFileName	PersonA2003-05-01-9-00-00
Description	Hello from Allison
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
Child Item	(null)
LeftSiblingItem	(null)
RightSiblingItem	PersonD2003-05-01-11-10-00
Status	Archived

2120

Field	Contents
AIDFileName	PersonD2003-05-01-11-10-00
Description	Denver Dave says hi, too
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	PersonA2003-05-01-9-00-00
RightSiblingItem	(null)
Status	Archived

FIG. 21B

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

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c. After third posting from Cynthia

2130

Field	Contents
AIDFileName	PersonA2003-05-01-9-00-00
Description	Hello from Allison
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	(null)
RightSiblingItem	PersonC2003-05-01-10-00-00
Status	Archived

2140

Field	Contents
AIDFileName	PersonD2003-05-01-11-10-00
Description	Denver Dave says hi, too
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	PersonC2003-05-01-10-00-00
RightSiblingItem	(null)
Status	Archived

2150

Field	Contents
AIDFileName	PersonC2003-05-01-10-00-00
Description	Are you Allison from Marketing?
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	PersonA2003-05-01-9-00-00
RightSiblingItem	PersonD2003-05-01-11-10-00
Status	Archived

FIG. 21C

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

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d. After fourth posting from Bill
 (Bill's local DSOB only)

FIG. 21D
FIG. 21D'
FIG. 21D"

2160

Field	Contents
AIDFileName	PersonA2003-05-01-9-00-00
Description	Hello from Allison
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	(null)
RightSiblingItem	PersonC2003-05-01-10-00-00
Status	Archived

2170

Field	Contents
AIDFileName	PersonD2003-05-01-11-10-00
Description	Denver Dave says hi, too
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	PersonB2003-05-02-08-30-00
RightSiblingItem	(null)
Status	Archived

2180

Field	Contents
AIDFileName	PersonC2003-05-01-10-00-00
Description	Are you Allison from Marketing?
LastPlaybackDate	(different for each workstation)
Authorization	LD
Parent Item	(null)
Child Item	(null)
LeftSiblingItem	PersonA2003-05-01-9-00-00
RightSiblingItem	PersonB2003-05-02-08-30-00
Status	Archived

FIG. 21D'

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

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Field	Contents
AIDFileName	PersonB2003-05-02-08-30-00
Description	That Allison was downsized
LastPlaybackDate	(different for each workstation)
Authorization	LD
Parent Item	(null)
Child Item	(null)
LeftSiblingItem	PersonC2003-05-01-10-00-00
RightSiblingItem	PersonD2003-05-01-11-10-00
Status	Archived

FIG. 21D"

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM
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e. After fifth posting from
 Allison (Master DSOB)

FIG. 21E**FIG. 21E'****FIG. 21E"**

2200

Field	Contents
AIDFileName	PersonA2003-05-01-9-00-00
Description	Hello from Allison
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	(null)
RightSiblingItem	PersonC2003-05-01-10-00-00
Status	Archived

2210

Field	Contents
AIDFileName	PersonD2003-05-01-11-10-00
Description	Denver Dave says hi, too
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	PersonB2003-05-02-08-30-00
RightSiblingItem	PersonA2003-05-01-9-00-00
Status	Archived

2220

Field	Contents
AIDFileName	PersonC2003-05-01-10-00-00
Description	Are you Allison from Marketing?
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	PersonA2003-05-01-9-00-00
RightSiblingItem	PersonB2003-05-02-08-30-00
Status	Archived

FIG. 21E'

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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM

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2230

Field	Contents
AIDFileName	PersonB2003-05-02-08-30-00
Description	That Allison was downsized
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	PersonC2003-05-01-10-00-00
RightSiblingItem	PersonD2003-05-01-11-10-00
Status	Archived

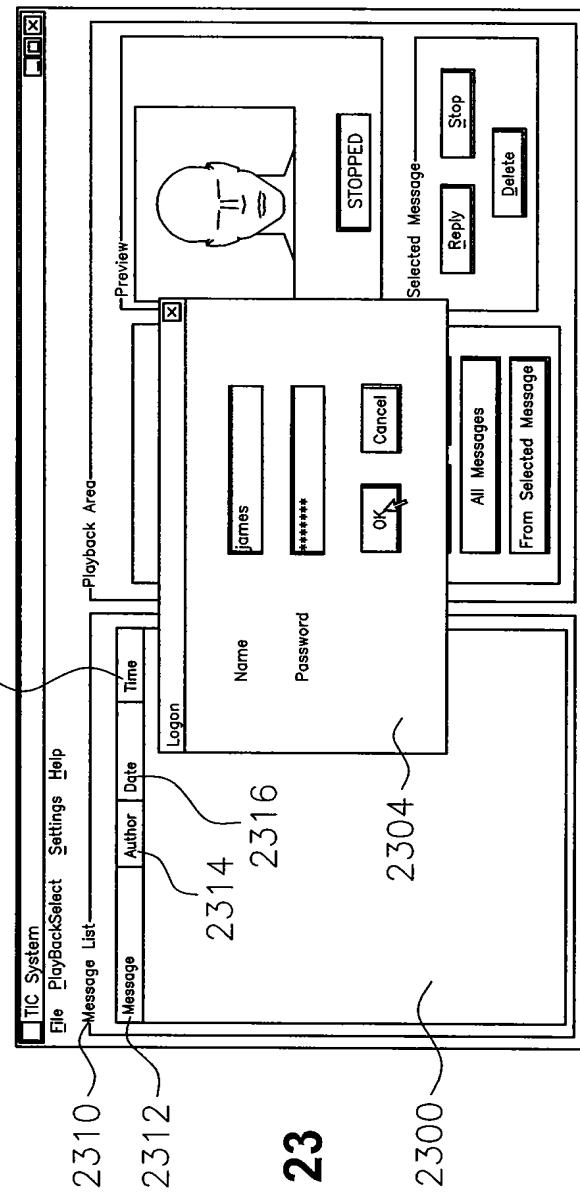
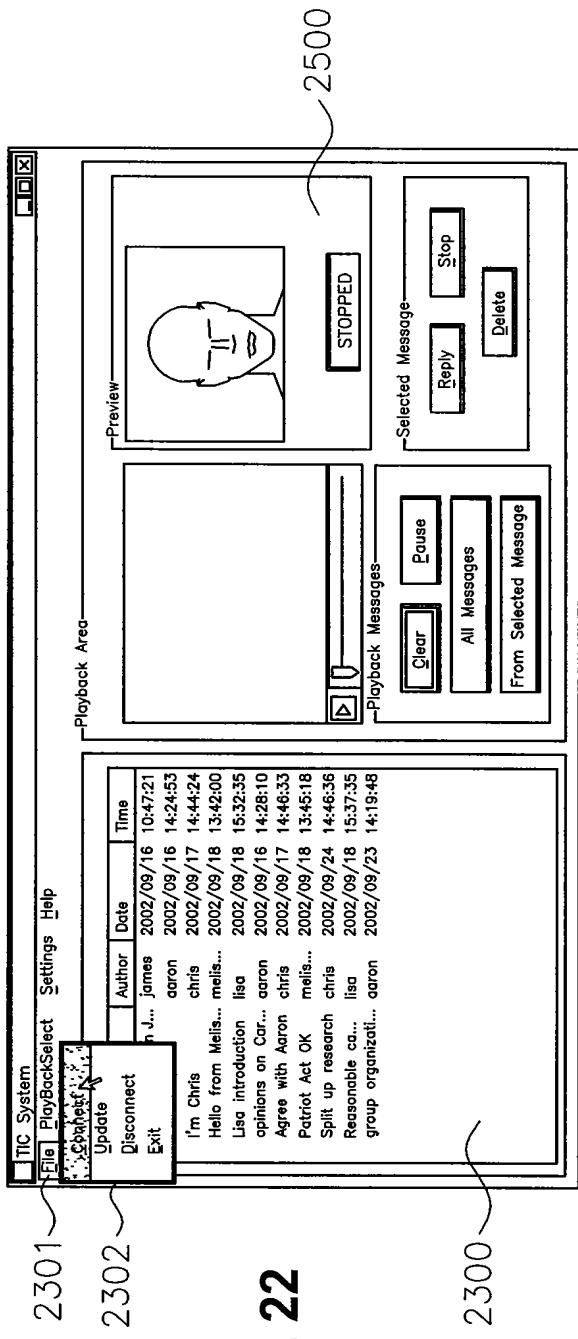
2240

Field	Contents
AIDFileName	PersonA2003-05-02-09-20-00
Description	Let's get started with Zebra
LastPlaybackDate	(different for each workstation)
Authorization	LD
ParentItem	(null)
ChildItem	(null)
LeftSiblingItem	PersonD2003-05-01-11-10-00
RightSiblingItem	(null)
Status	Archived

FIG. 21E"

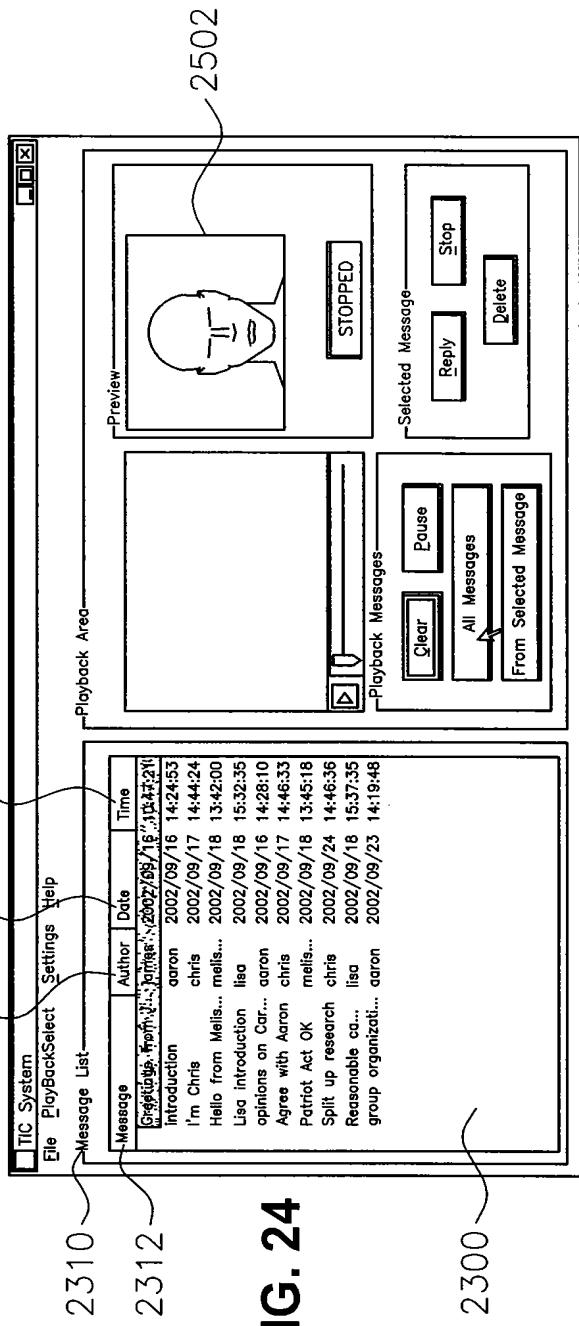
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ASYNCHRONOUS NETWORK AUDIO/VISUAL COLLABORATION SYSTEM
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RPI-123US



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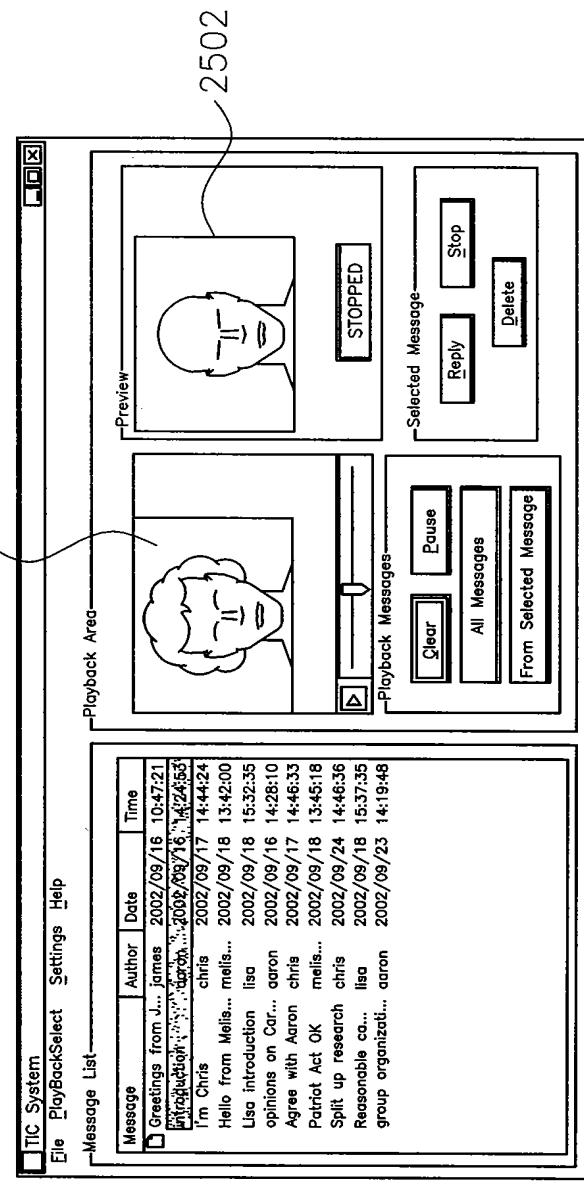
2314 2316 2318



2310

2312

2300



2506

2502

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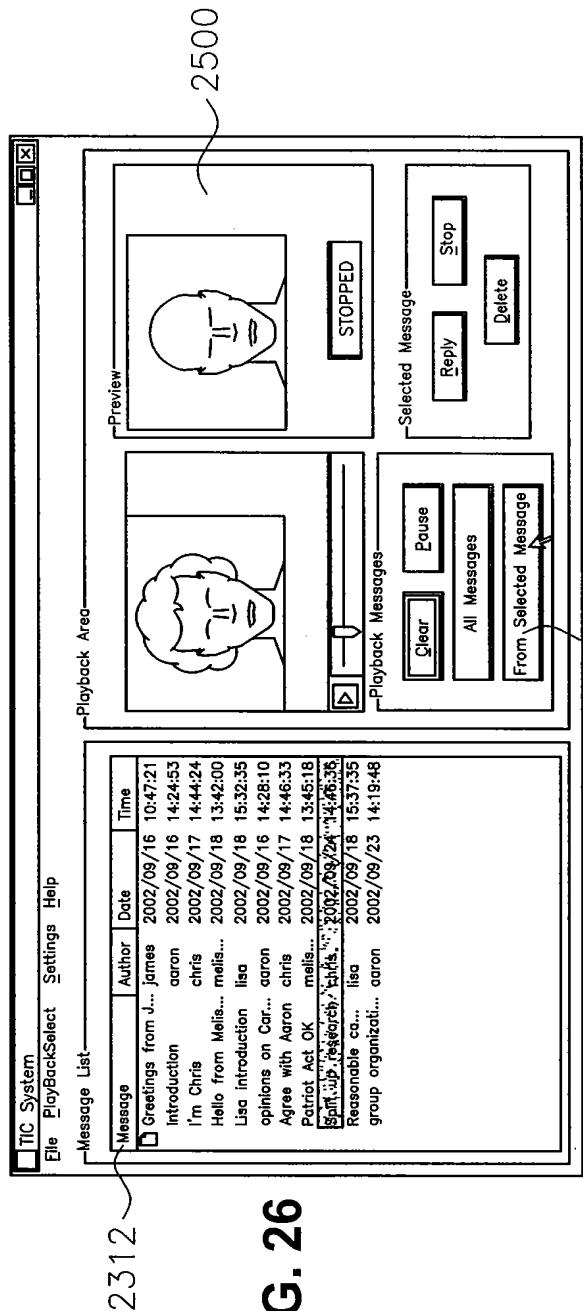


FIG. 26

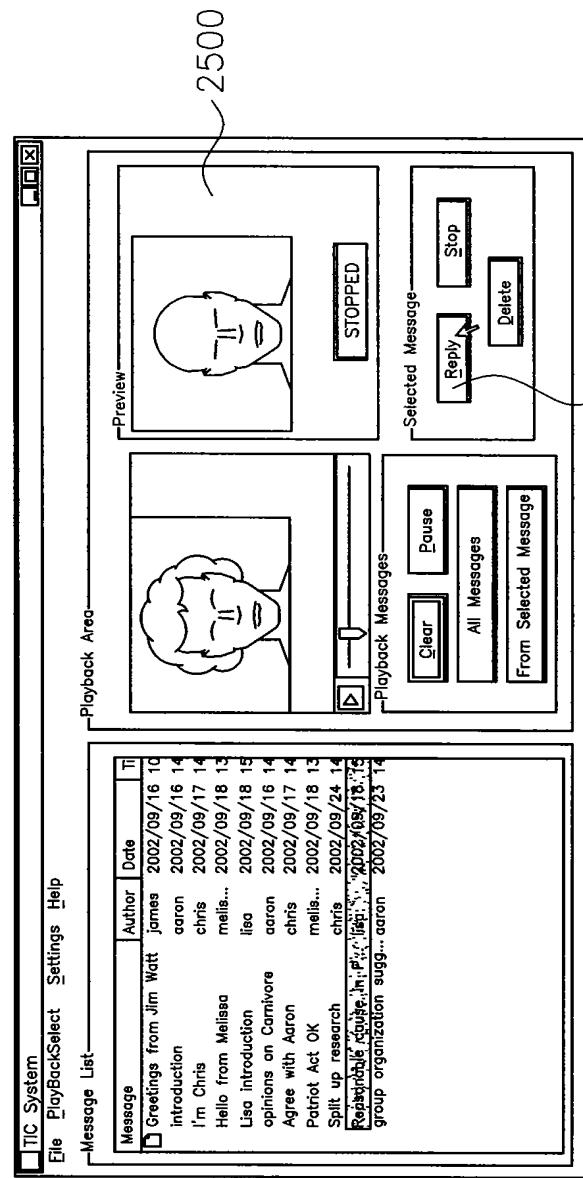
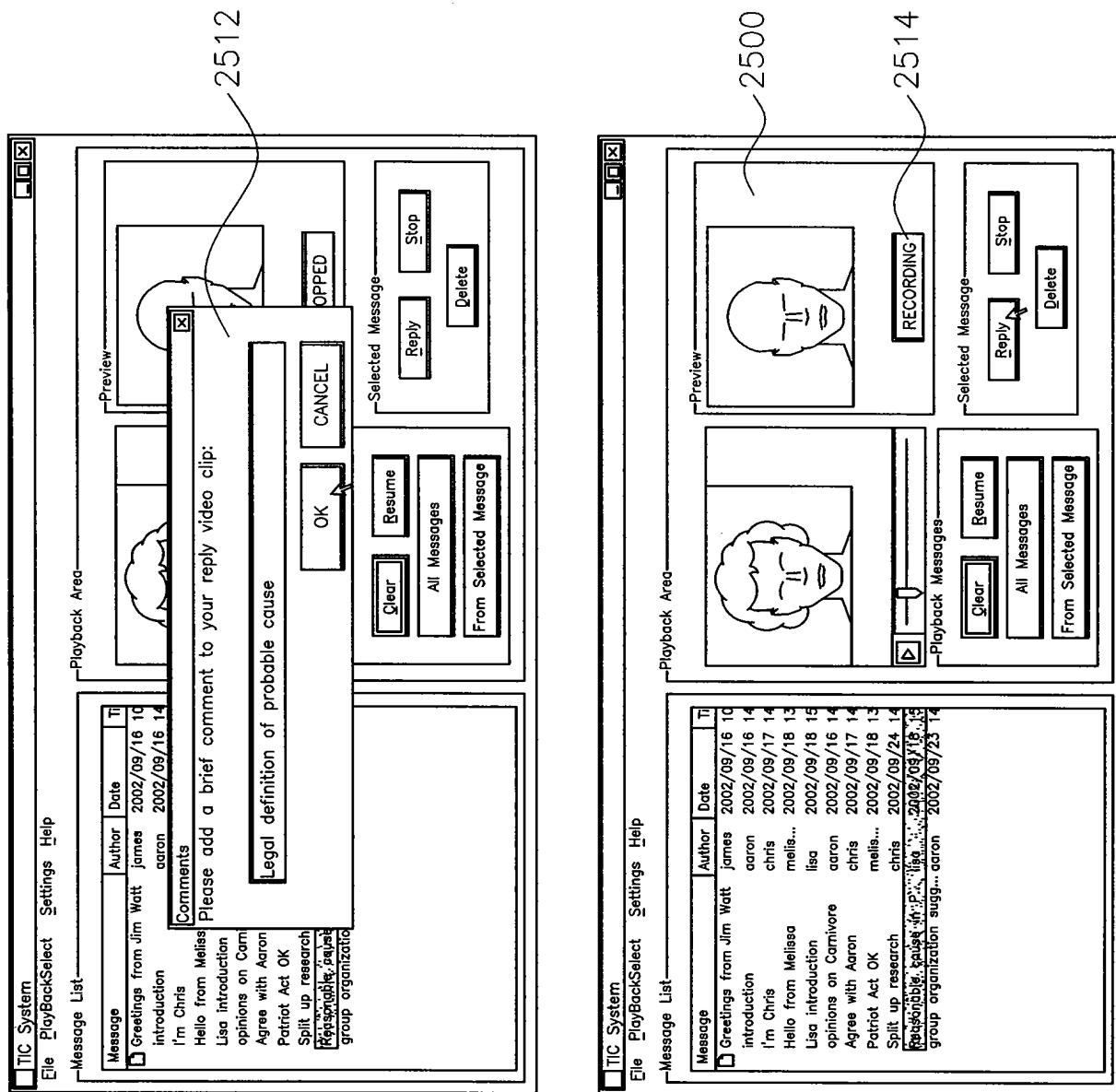


FIG. 27

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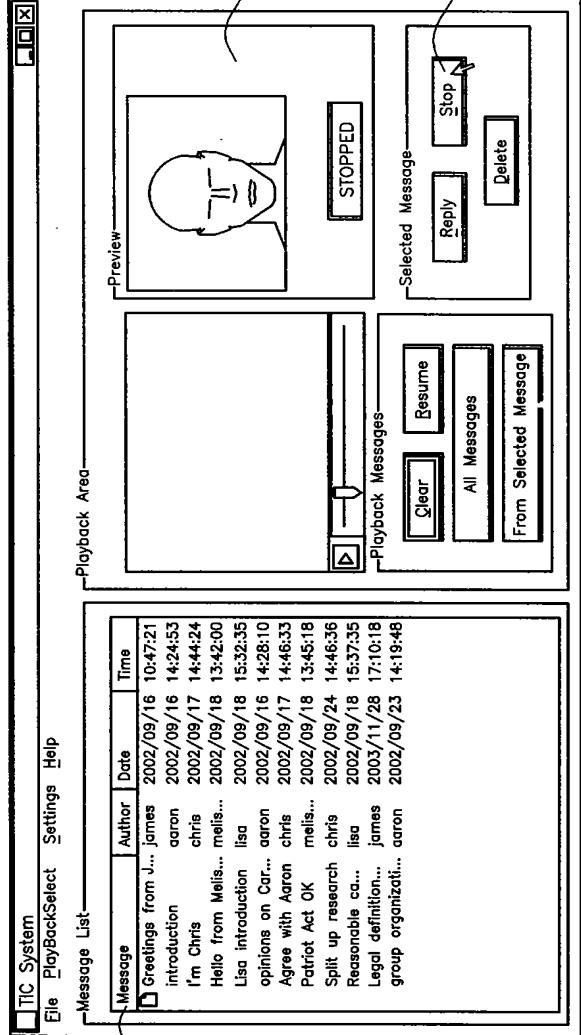


FIG. 30

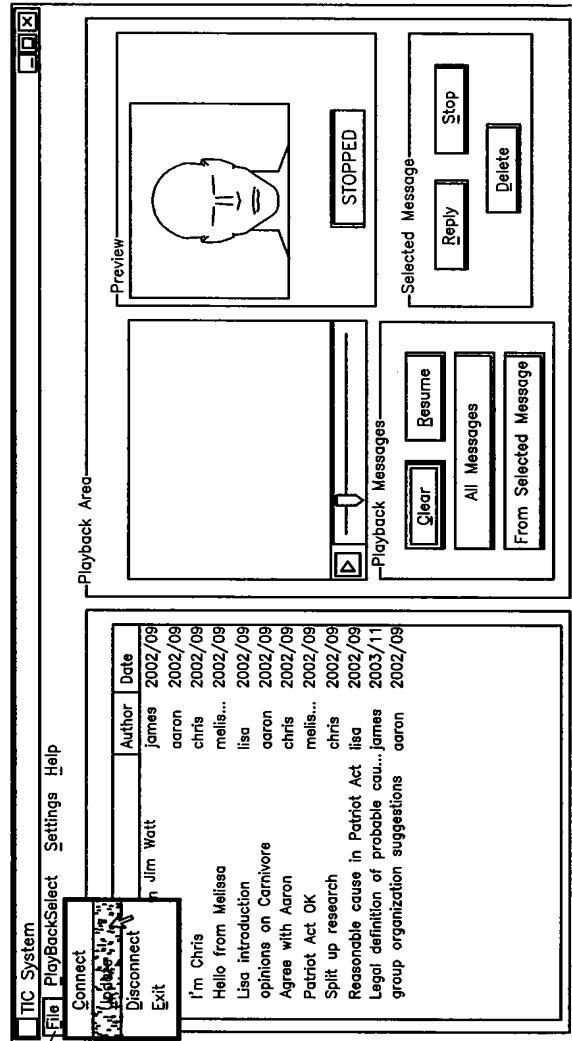


FIG. 31

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